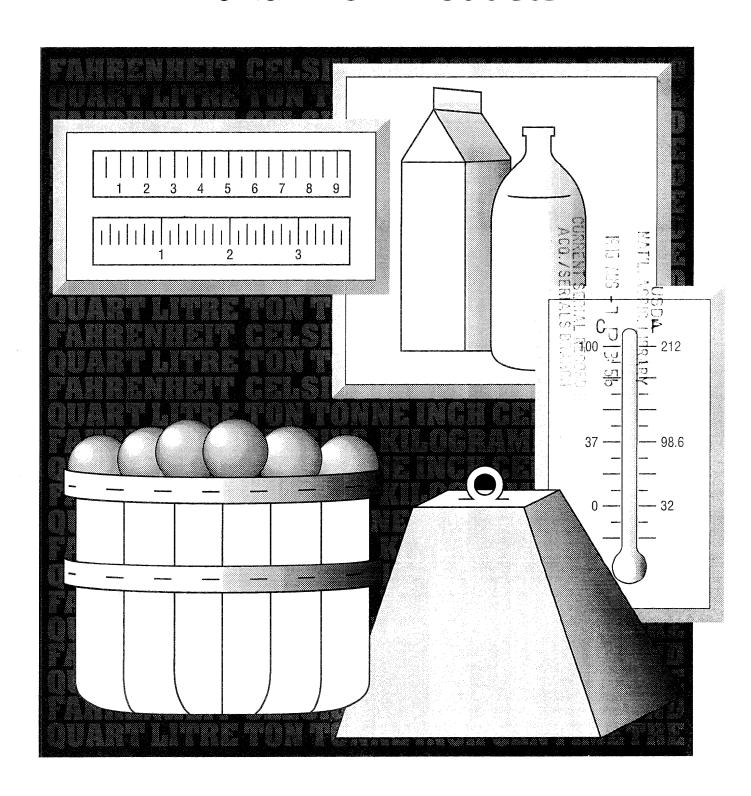




Economic Research Service

Agricultural Handbook Number 697

Weights, Measures, and Conversion Factors for Agricultural Commodities and Their Products



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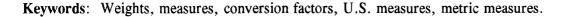
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Abstract

This handbook is a compilation of weights, measures, and conversion factors used for agricultural commodities and their products. Several of the conversion factors and values shown in this handbook can be applied to many commodities. Some factors and values relate to specific commodities or products. This handbook supersedes Statistical Bulletin No. 616, Conversion Factors and Weights and Measures for Agricultural Commodities and Their Products (1979). When feasible, general purpose tables were updated to reflect changes in agricultural production and marketing. Considerable emphasis was given to metric measures.



Supersedes SB-616, Conversion Factors and Weights and Measures for Agricultural Commodities and Their Products, 1979.

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Weights, Measures, and Conversion Factors for Agricultural Commodities and Their Products

This handbook was compiled to provide conversion factors for use in statistical, research, and service programs of the U.S. Department of Agriculture (USDA). The handbook supersedes Statistical Bulletin No. 616, Conversion Factors and Weights and Measures for Agricultural Commodities and Their Products, published in 1979. Revisions often reflect changes in agricultural production and marketing practices. Also, much more emphasis has been given to metric weights and measures and to factors for converting from U.S. measures to metric measures.

Values shown are generally intended to represent overall averages, except where indicated. The conversion factors included are based on available information for current conditions and practices. While it includes a reasonably complete set of general purpose factors, the handbook may be less than fully satisfactory for some particular commodities or needs. Conversion factors for many commodities can change from year to year. Thus, caution is suggested in using the handbook for compiling or revising historical series.

Accounting for changes in marketing and production practices can require considerable study and consultation. Thus, it has not been possible to update all tables. A few tables published in Statistical Bulletin No. 616 that were felt to be seriously out of date or of limited relevance at this time have been deleted. Information needs noted in preparing this handbook may stimulate research that can lead to future enhancements. Users of the handbook are invited to suggest alternative sources of information or supply materials for improvements.

Much of the handbook revision was prepared by Economic Research Service (ERS) staff, especially by commodity specialists from the Commodity Economics Division (CED). Analysts from the Agriculture and Rural Economy Division (ARED), the Agriculture and Trade Analysis Division (ATAD), and the Resources and Technology Division (RTD) provided materials and helped with review. Staff of the Agricultural Research Service (ARS), the Agricultural Marketing Service (AMS), and the National Agricultural Statistics Service (NASS) helped prepare and reviewed the tables.

Individuals from the CED who coordinated the preparation of materials were James Cole, Crops Branch; Kenneth Nelson, Livestock, Dairy, and Poultry Branch; William Moore, Specialty Agriculture Branch; and Carolyn Whitton, Commodity and Trade Analysis Branch. Representing other ERS divisions were Mir Ali, ARED; William Crosswhite, RTD; and C. Edward Overton, ATAD. Other USDA agency representatives were Alfonzo Drain, NASS; Gary Scavongelli, AMS; and Wilda Martinez, ARS.

Edward Reinsel and James Horsfield, Office of the Administrator, ERS, served as overall coordinators for the handbook. Joseph Lockley provided typing support and Bonnie Moore prepared the camera copy.

Table 2—Customary weights and measures of the United States

| Linear measure | | |
|--|--|---------------------------------|
| 12 inches (in) 3 feet 16½ feet | = 1 foot (ft) = 1 yard (yd) = 1 rod (rd), pole, or perch | |
| 40 rods | = 1 furlong (fur) = 10 chains | = 660 feet = 201.168 meters |
| 8 furlongs | = 1 U.S. statute mile (mi) | = 5,280 feet |
| 1 852 meters | = 6,076.11549 feet (approximately) | = 1 international nautical mile |
| Area measure | | |
| 144 square inches (in ²) | = 1 square foot (ft ²) | |
| 9 square feet | 1 square yard (yd²) 1,296 square inches | |
| 272 4 square feet | = 1 square rod (sq rd) | |
| 160 square rods | = 1 acre | = 43,560 square feet |
| 640 acres | = 1 square mile (mi ²) = 1 section of land | |
| 1 mile square 6 miles square | = 1 section of land = 1 township | |
| o mnes square | = 36 sections | = 36 square miles |
| <u>Cubic measure</u> | | |
| 1,728 cubic inches (in³) 27 cubic feet | $= 1 \text{ cubic foot } (ft^3)$ $= 1 \text{ cubic yeard } (vt^3)$ | |
| 27 cubic feet | = 1 cubic yard (yd³) | |
| Gunter's or surveyor's chain m | <u>seasure</u> | |
| 0.66 foot (ft) | = 1 link (li) | |
| 100 links | = 1 chain (ch) | = 20.116 8 meters |
| | = 4 rods | = 66 feet |
| 8 000 links | = 1 U.S. statute mile (mi) | |
| 1 rod 80 chains | = 25 links = 1 U.S. statute mile (mi) | |
| oo chams | = 320 rods | = 5,280 feet |
| <u>Liquid measure</u> | | |
| 4 gills (gi) | = 1 pint (pt) | = 28.875 cubic inches |
| 2 pints | = 1 quart (qt) | = 57.75 cubic inches |
| 4 quarts | = 1 gallon (gal) | = 231 cubic inches |
| <u>Dry measure</u> | | |
| 2 pints (pt) | = 1 quart (qt) | = 67.2006 cubic inches |
| 8 quarts | $= 1 \operatorname{peck} (pk)$ | = 537.605 cubic inches |
| 4 | = 16 pints | 2.150.42 |
| 4 pecks | = 1 bushel (bu) = 32 quarts | = 2,150.42 cubic inches |
| | · - 1····· | |

Continued—

Table 2—Customary weights and measures of the United States—Continued

Avoirdupois weight

27-11/32 grains = 1 dram (dr) 16 drams = 1 ounce (oz)

 $= 437\frac{1}{2}$ grains

16 ounces = 1 pound (lb)

= 7,000 grains

100 pounds = 1 hundredweight (cwt)

20 hundredweights = 1 ton = 2,000 pounds

= 256 drams

Values in gross or long measure

112 pounds = 1 gross or long hundredweight

20 gross or long hundredweights = 1 gross or long ton

= 2,240 pounds

| Unit | | Inches | Feet | Yards | Centi- meters | Meters |
|--------------|----|-----------|--------------|--------------|------------------|----------------|
| 1 inch | = | <u>1</u> | 0.08333333 | 0.02777778 | 2.54 | 0.025 4 |
| 1 foot | = | <u>12</u> | <u>1</u> | 0.3333333 | <u>30.48</u> | 0.304 8 |
| 1 yard | == | <u>36</u> | <u>3</u> | <u>1</u> | <u>91.44</u> | <u>0.914 4</u> |
| 1 mile | = | 63,360 | <u>5,280</u> | <u>1,760</u> | <u>160 934.4</u> | 1 609.344 |
| 1 centimeter | = | 0.3937008 | 0.03280840 | 0.01093613 | <u>1</u> | 0.01 |
| 1 meter | - | 39.37008 | 3.280840 | 1.093613 | 100 | 1 |

Length—Survey measure

| Unit | | Feet | Rods | Chains | Miles | Meters |
|------------------|-----|------------------|--------------------|---------------------------|--------------------------|----------------------------|
| 1 link 1 foot | = | <u>0.66</u> 1 | 0.04 0.06060606 | <u>0.01</u> 0.01515152 | 0.000125 0.0001893939 | 0.201 168 4 0.304 800 6 |
| 1 rod | = | 16.5 | 1 | 0.25 | 0.003125 | 5.029 210 |
| 1 chain | === | <u>66</u> | <u>4</u> | <u>1</u> | 0.0125 | 20.116 84 |
| 1 mile | == | 5,280 | <u>320</u> | <u>80</u> | <u>1</u> | 1 609.347 |
| 1 meter | = | 3.280833 | 0.1988384 | 0.0497096 | 0.0006213699 | <u>1</u> |

Area—International measure

| Unit | | Square inches | Square feet | Square yards |
|--|---|--|--|---|
| 1 square inch 1 square foot 1 square yard 1 square centimeter 1 square meter | ======================================= | 1 144 1,296 0.1550003 1 550.003 | 0.006944444 1 9 0.001076391 10.76391 | 0.0007716049 0.1111111 1 0.000119599 1.195990 |
| Unit | | Square centimeters | Square meters | |
| 1 square inch 1 square foot 1 square yard 1 square centimeter 1 square meter | = | 6.451 6 929.030 4 8 361.273 6 1 10 000 | 0.000 645 16 0.092 903 04 0.836 127 36 0.000 1 1 | |

Units of area—Survey measure

| Unit | | Square feet | Square rods | Square chains | Acres |
|----------------|----|---------------|-------------|---------------|---------------|
| 1 square foot | = | <u>1</u> | 0.003673095 | 0.0002295684 | 0.00002295684 |
| 1 square rod | = | <u>272.25</u> | <u>1</u> | 0.0625 | 0.00625 |
| 1 square chain | = | 4,356 | <u>16</u> | <u>1</u> | <u>0.1</u> |
| 1 acre | == | 43,560 | <u>160</u> | <u>10</u> | <u>1</u> |
| 1 square mile | = | 27,878,400 | 102,400 | 6,400 | <u>640</u> |
| 1 square meter | = | 10.763 87 | 0.03953670 | 0.002471044 | 0.0002471044 |
| 1 hectare | = | 107,638.7 | 395.3670 | 24.71044 | 2.471044 |
| | | | | | Continued— |

Table 3—Conversion of weights and measures—Continued

| Unit | Square miles | Square | meters | Hectares |
|---|--|--|---|---|
| 1 square rod 1 square chain 1 acre 1 square mile 1 square meter 1 hectare | = 0.000097656 $= 0.00015625$ $= 0.0015625$ $= 1$ $= 0.000003861$ $= 0.003861006$ | 404.68 4 046.8 2 589 9 | 7 3 873 998 | 0.002 529 295 0.040 468 73 0.404 687 3 258.999 8 0.000 1 1 |
| <u>Volume</u> | | | | |
| Unit | Cubic inches | Cubic j | feet | Cubic yards |
| 1 cubic inch 1 cubic foot 1 cubic yard 1 cubic centimeter 1 cubic decimeter 1 cubic meter | = | $\frac{1}{27}$ | | 0.00002143347 0.03703704 1 0.000001307951 0.001307951 1.307951 |
| Unit | Milliliters | Liters | | Cubic meters |
| 1 cubic inch 1 cubic foot 1 cubic yard 1 cubic centimeter 1 cubic decimeter 1 cubic meter | = | <u>92</u> <u>28.316</u> | 387 064 846 592 4 857 984 | 0.000 016 387 064 0.028 316 846 592 0.764 554 857 984 0.000 001 0.001 1 |
| Capacity—Dry measure | | | • | |
| Unit | Dry pints | Dry quarts | Pecks | Bushels |
| 1 dry pint 1 dry quart 1 peck 1 bushel 1 cubic inch 1 cubic foot 1 liter 1 cubic meter | = | 0.5 1 8 32 0.0148808 25.71405 0.9080830 908.0830 | 0.0625 0.125 1 4 0.00186010 3.214256 0.1135104 113.5104 | 0.015625 0.03125 0.25 1 0.000465025 0.80356395 0.02837759 28.37759 |
| Unit | Cubic inches | Cubic feet | Liters | Cubic meters |
| 1 dry pint 1 dry quart 1 peck 1 bushel 1 cubic inch 1 cubic foot 1 liter 1 cubic meter | = 33.6003125 $= 67.200625$ $= 537.605$ $= 2.150.42$ $= 1$ $= 1.728$ $= 61.02374$ $= 61,023.74$ | 0.01944463 0.03888925 0.311114 1.244456 0.0005787037 <u>1</u> 0.03531467 35.31467 | 0.550 610 5 1.101 221 8.809 768 35.239 07 0.016 387 06 28.316 85 1 1 000 | 0.000 550 610 5 0.001 101 221 0.008 809 768 0.035 239 07 0.000 016 387 06 0.028 316 85 0.001 1 Continued— |

| Capacity—Liquid measu | <u>re</u> | | | |
|--|--|--|--|--|
| Unit | Fluid ounces | Liquid pints | Liguid quarts | Gallons |
| 1 fluid ounce 1 liquid pint 1 liquid quart 1 gallon 1 cubic inch 1 cubic foot 1 milliliter 1 liter | = | 0.0625 1 2 8 0.03463203 59.84416 0.002113376 2.113376 | 0.03125 0.5 1 4 0.01731602 29.92208 0.001056688 1.056688 | 0.0078125 0.125 0.25 1 0.004329004 7.480519 0.0002641721 0.2641721 |
| Unit | Cubic inches | Cubic feet | Milliliters | Liters |
| 1 fluid ounce 1 liquid pint 1 liquid quart 1 gallon 1 cubic inch 1 cubic foot 1 milliliter 1 liter | = 1.8046875 $= 28.875$ $= 57.75$ $= 231$ $= 1$ $= 1.728$ $= 0.06102374$ $= 61.02374$ | 0.001044379 0.01671007 0.03342014 0.1336806 0.0005787037 1 0.00003531467 0.03531467 | 29.573 53 473.176 5 946.352 9 3 785.412 16.387 06 28 316.85 1 1 000 | 0.029 573 53 0.473 176 5 0.946 352 9 3.785 412 0.016 387 06 28.316 85 0.001 1 |
| Mass not less than avoir | dupois ounces | | | |
| Unit | Avoirdupois ounces | Avoirdupois pounds | Short hundred weights | d- Short tons |
| 1 avoirdupois ounce 1 avoirdupois pound 1 short hundredweight 1 short ton 1 long ton 1 kilogram 1 metric ton | = | 0.0625 1 100 2.000 2.240 2.204623 2,204.623 | 0.000625 0.01 1 20 22.4 0.02204623 22.04623 | 0.00003125 0.0005 0.05 1 1.12 0.001102311 1.102311 |
| Unit | Long tons | Kilograi | ns | Metric tons |
| 1 avoirdupois pound 1 short hundredweight 1 short ton 1 long ton 1 kilogram 1 metric ton | = 0.0004464286 = 0.04464286 = 0.8928571 = <u>1</u> = 0.0009842065 = 0.9842065 | 45.359 2 907.184 1 016.04 | 237 | 0.000 453 592 37 0.045 359 237 0.907 184 74 1.016 046 908 8 0.001 1 |
| Unit | Avoirdupois p | oounds Milligra | ms | Grams |
| 1 avoirdupois ounce 1 avoirdupois pound 1 milligram 1 gram 1 kilogram | = 0.0625 $= 1$ $= 0.0000022046$ $= 0.002204623$ $= 2.204623$ | 28 349.5 453 592 523 | .37 | 28.349 523 125 453.592 37 0.001 1 1 000 |

Lengths

1 decimeter (dm) = 3.937 inches 1 dekameter (dam) = 32.808 feet 1 fathom = 6 feet

 $= \underline{6} \text{ tea}$

= 1.828 8 meters
1 hand = 4 inches
1 kilometer (km) = 0.621 mile
1 mile (mi) (international nautical) = 1.852 kilometers

1.151 survey miles
1 millimeter (mm) = 0.03937 inch
1 international foot = 0.999998 survey foot

1 international mile = 0.999998 mile

Areas or surfaces

1 square survey foot = 1.000004 square international feet 1 square survey mile = 1.000004 square international miles

1 square (building) = 100 square feet 1 square decimeter (dm²) = 15.500 square inches 1 square kilometer (km²) = 247.104 acres = 0.386 square mile

1 square millimeter (mm²) = 0.360 square inch

Capacities or volumes

1 barrel (bbl), liquid = 31 to 42 gallons¹

1 barrel (bbl), standard for fruits, vegetables, and other dry commodities, except cranberries = 7,056 cubic inches

= 105 dry quarts

= 3.281 bushels, struck measure

1 barrel (bbl), standard, cranberry = 5,826 cubic inches

= 86 45/64 dry quarts

= 2.709 bushels, struck measure

1 cord (cd) (firewood) = 128 cubic feet

Water flow relationships (approximations)

1 billion gallons per day (bgd) = 1,121 thousand acre-feet per year

= 1,547 cubic feet per second

694.4 thousand gallons per minute
 3.785 million cubic meters per day

1 thousand acre-feet per year = 0.8921 million gallons per day (mgd)

= 1.380 cubic feet per second

0.6195 thousand gallons per minute
 3.377 thousand cubic meters per day

1 million cubic meters per day = 264.2 million gallons per day

1 thousand cubic meters per day = 296.12 acre-feet per year

¹There are a variety of "barrels" established by law or usage. For example, Federal taxes on fermented liquors are based on a barrel of 31 gallons; many State laws fix the "barrel for liquids" as 31½ gallons; one State fixes a 36-gallon barrel for cistern measurement; Federal law recognizes a 40-gallon barrel for "proof of spirits"; by custom, 42 gallons comprise a barrel of crude oil or petroleum products for statistical purposes, and this equivalent is recognized "for liquids" by four States.

Table 5—Factors for converting domestic and metric weights and measures commonly used for agricultural commodities

| Domestic weight | | Equivalent | Metric weight | | Equivalent | |
|------------------|------|------------------------------------|------------------|----|--------------------------|-------|
| 1 ounce | == | 28.349 5 grams | 1 gram | = | 0.035274 ounce | : |
| 1 pound | = | 453.592 4 grams | 1 gram | == | 0.0022046 pound | |
| 1 pound | = | 0.455 924 kilogram | 1 kilogram | == | 2.204622 pounds | |
| 1 pound | = | 0.004 535 9 metric quintal | 1 metric quintal | = | 220.4622 pounds | |
| 1 pound | = | 0.0005 short ton | 1 short ton | = | 2,000 pounds | |
| 1 pound | = | 0.000 453 6 metric ton | 1 metric ton | = | 2,204.622 pounds | |
| 1 pound | = | 0.0004464 long ton | 1 long ton | = | 2,240 pounds | 4 |
| 1 short ton | = | 0.907 185 metric ton | 1 metric ton | = | 1.102311 short tons | |
| 1 long ton | == | 1.016 047 metric tons | 1 metric ton | = | 0.984206 long ton | |
| 1 short ton | = | 0.892857 long ton | 1 long ton | = | 1.12 short tons | |
| 1 million pounds | = | 500 short tons | 1 short ton | = | 0.002 million pounds | |
| 1 million pounds | = | 453.592 5 metric tons | 1 metric ton | == | 0.0022046 million pounds | |
| 1 million pounds | = | 446.4286 long tons | 1 long ton | = | 0.00224 million pounds | 1 |
| 50-pound bushel | of H | vheat, white potatoes, and soybean | ıs | | | |
| 1 bushel | = | 0.03 short ton | 1 short ton | = | 33.333 bushels | |
| 1 bushel | = | 0.027 215 5 metric ton | 1 metric ton | = | 36.7437 bushels | |
| l bushel | = | 0.0267857 long ton | 1 long ton | = | 37.333 bushels | |
| l bushel | | 0.272 155 metric quintal | 1 metric quintal | = | 3.67437 bushels | |
| l bushel | = | 27.215 5 kilograms | 1 kilogram | = | 0.036744 bushel | |
| 56-pound bushel | of s | helled corn, rye, sorghum grain, o | and flaxseed | | | |
| 1 bushel | = | 0.028 short ton | 1 short ton | _ | 35.714 bushels | |
| 1 bushel | = | 0.025 4 metric ton | 1 metric ton | = | 39.368 bushels | |
| 1 bushel | = | 0.025 long ton | 1 long ton | - | 40 bushels | |
| 48-pound bushel | of b | arley, buckwheat, and apples | | | | |
| 1 bushel | == | 0.024 short ton | 1 short ton | = | 41.667 bushels | |
| 1 bushel | = | 0.021 772 metric ton | 1 metric ton | == | 45.9296 bushels | |
| 1 bushel | = | 0.021429 long ton | 1 long ton | = | 46.667 bushels | |
| 32-pound bushel | of o | ats | | | | |
| . . | _ | | | | | |
| 1 bushel | | 0.016 short ton | 1 short ton | = | 62.5 bushels | |
| l bushel | = | 0.014 515 metric ton | 1 metric ton | = | 68.8944 bushels | |
| bushel | = | 0.014286 long ton | 1 long ton | = | 70 bushels | |
| 88-pound bushel | of o | ats | • | | | |
| l bushel | = | 0.019 short ton | 1 short ton | = | 52.63 bushels | |
| 1 bushel | = | 0.017 24 metric ton | 1 metric ton | = | 58.016 bushels | |
| 1 Cusher | | | | | | |

Table 6—Individual commodity weights and measures

| G 174 | TT '4 | Approximate net weight | | | |
|----------------------------|------------------------------|------------------------|---------------|--|--|
| Commodity | Unit | Metric | United States | | |
| | | Kilograms | Pounds | | |
| Alfalfa seed | Bushel | 27.2 | 60 | | |
| Apples | Bushel basket or carton | 18.1 | 40 | | |
| | Carton, tray or cell pack | 18.1 | 40 | | |
| Apricots | Lug, loose | 10.9 | 24 | | |
| Western | 4-basket crate | 11.8 | 26 | | |
| Artichokes | Carton | 10.4 | 23 | | |
| Globe | ¹∕2-box | 9.1 | 20 | | |
| Jerusalem | Bushel | 22.7 | 50 | | |
| Asparagus | Crate | 13.6 | 30 | | |
| Avocados | Lug | 5.4-6.8 | 12-15 | | |
| | Flat or carton, 2 layer | 11.8 | 26 | | |
| Bananas | Carton | 18.1 | 40 | | |
| Barley | Bushel | 21.8 | 48 | | |
| Beans: | 2401101 | 21.0 | | | |
| Lima, dry | Bushel | 25.4 | 56 | | |
| Other, dry | Bushel | 27.2 | 60 | | |
| othor, ary | Sack | 45.4 | 100 | | |
| Lima, unshelled | Bushel | 12.7-14.5 | 28-32 | | |
| Snap | Bushel | 12.7-14.5 | 28-32 | | |
| eets: | Bushici | 12.7 14.5 | 20 32 | | |
| Topped | Sack | 11.3 | 25 | | |
| Bunched | Crate or carton | 17.2 | 38 | | |
| derries frozen pack: | Claid of Carton | 17.2 | 50 | | |
| Without sugar | 50-gallon barrel | 172 | 380 | | |
| 3 + 1 pack | 50-gallon barrel | 193 | 425 | | |
| 2 + 1 pack | 50-gallon barrel | 204 | 450 | | |
| lackberries | 12, ½-pint baskets | 2.7 | 6 | | |
| luegrass seed | Bushel | 6.4-13.6 | 14-30 | | |
| roccoli | Carton | 10.4 | 23 | | |
| roomcorn (6 bales per ton) | Bale | 151 | 333 | | |
| croomcorn seed | Bushel | 20.0-22.7 | 44-50 | | |
| russels sprouts | Carton | 11.3 | 25 | | |
| luckwheat | Bushel | 21.8 | 48 | | |
| Sutter | Box | 30.9 | 68 | | |
| Cabbage | Open mesh bag, sack | 22.7 | 50 | | |
| - Ougo | Wirebound crate | 22.7 | 50 | | |
| | Western crate | 36.3 | 80 | | |
| Chinese cabbage | 15½-inch wirebound crate | 22.7-24.0 | 50-53 | | |
| Chinese caudage | 1-1/9-bushel wirebound crate | 18.1-20.4 | 40-45 | | |
| Santalounes | 1/2 carton or crate | 18.1 | 40-43 | | |
| Cantaloupes | Sacks, 48 1-pound and | 10.1 | +∪ | | |
| Carrots, without tops | - | 21.8 | 48 | | |
| | 24 2-pound Sacks | 22.7 | 50 | | |
| | Sauks | 22.1 | 30 | | |

Continued—

Table 6—Individual commodity weights and measures—Continued

| Commodity | Unit — | Approxima | te net weight |
|-----------------------------|--|-----------|---------------|
| Commounty | Omt | Metric | United States |
| | · · · | Kilograms | Pounds |
| Castor beans | Bushel | 18.6 | 41 |
| Castor oil | Gallon | 3.6 | 8 |
| | Western Grower's Association | | |
| | crate | 22.7-27.2 | 50-60 |
| Cauliflower | Carton, filmwrapped trimmed | 11.3 | 25 |
| | LI wirebound crate | 27.2 | 60 |
| Celery | Carton or crate | 27.2 | 60 |
| Cherries | Lug, California | 8.2 | 18 |
| , | Lug, Northwest | 9.1 | 20 |
| Chives | Flat of 12 pots | 4.5 | 10 |
| Clover seed | Bushel | 27.2 | 60 |
| Coffee | Bag | 60 | 132.3 |
| Com: | 545 | 00 | 132.3 |
| Ear, husked | Bushel | 31.8 | 70 |
| Shelled | Bushel | 25.4 | 56 |
| Meal | Bushel | 22.7 | 50 |
| Oil | Gallon | 3.5 | 7.7 |
| Syrup | Gallon | 5.3 | 11.72 |
| Sweet | Carton | 22.7 | 50 |
| Sweet | Wirebound crate | 19.1 | 42 |
| Cotton | | 227 | 500 |
| Lotton | Bale, gross | 218 | 480 |
| Tattamanad | Bale, net | | |
| Cottonseed | Bushel | 14.5 | 32 |
| Cottonseed oil | Gallon | 3.5 | 7.7 |
| Cowpeas | Bushel | 27.2 | 60 |
| Cranberries | Barrel | 45.4 | 100 |
| | Carton, 24 12-ounce filmbags | 8.2 | 18 |
| Cream, 40-percent butterfat | Gallon | 3.80 | 8.38 |
| Cucumbers | 1-1/9-bushel, carton/crate | 24.9 | 55 |
| Dewberries | Flat, 12 ½-pint baskets | 2.7 | 6 |
| Eggplant | 1-1/9-bushel, carton/crate | 15.0 | 33 |
| Eggs, average size | Case, 30 dozen | 21.3 | 47.0 |
| Escarole | 1-1/9-bushel, carton/crate | 11.3 | 25 |
| Figs, fresh | Flat 1 layer tray pack | 2.7 | 6 |
| laxseed | Bushel | 25.4 | 56 |
| Flour, various | Bag | 45.4 | 100 |
| Garlic | Carton or crate, bulk Carton of 12-tube or 12-film | 13.6 | 30 |
| | bag package (2 cloves each) | 4.5 | 10 |

Continued—

Table 6—Individual commodity weights and measures—Continued

| Commoditu | Unit | Approxima | te net weight |
|------------------------|--------------------|-----------|---------------|
| Commodity | Onit | Metric | United States |
| | | Kilograms | Pounds |
| Grapefruit: | | | |
| Florida and Texas | ½-box mesh bag | 18.1 | 40 |
| Florida | 4/5-bushel carton | 18.1 | 40 |
| Texas | 7/10-bushel carton | 18.1 | 40 |
| California and Arizona | Carton | 15.4 | 34 |
| Grapes | Carton or lug | 10.0-10.4 | 22-23 |
| Eastern | 12-quart basket | 9.1 | 20 |
| Western | Lug | 12.7 | 28 |
| | 4-basket crate | 9.1 | 20 |
| Hempseed | Bushel | 20.0 | 44 |
| Hickory nuts | Bushel | 22.7 | 50 |
| Honey | Gallon | 5.4 | 11.84 |
| Honeydew melons | ⅔ carton | 13.6 | 30 |
| Hops | Bale, gross | 90.7 | 200 |
| Horseradish roots | Sack | 22.7 | 50 |
| Hungarian millet seed | Bushel | 21.8-22.7 | 48-50 |
| Kale | Carton or crate | 11.3 | 25 |
| Kapok seed | Bushel | 15.9-18.1 | 35-40 |
| Kiwifruit: | | | |
| California | 1-layer flat | 1.8-2.7 | 4-6 |
| New Zealand | 1-layer carton | 3.2-4.1 | 7-9 |
| Leeks | 4/5-bushel crate | 9.1 | 20 |
| Lemons: | | | |
| Florida | 4/5-bushel carton | 19.1 | 42 |
| California and Arizona | Carton | 17.2 | 38 |
| Lentils | Bushel | 27.2 | 60 |
| Lettuce | Carton | 22.7 | 50 |
| Lettuce, hothouse | 24-quart basket | 4.5 | 10 |
| Limes | Carton | 17.2 | 38 |
| Linseed oil | Gallon | 3.5 | 7.7 |
| Malt | Bushel | 15.4 | 34 |
| Mangoes: | | | |
| Florida | Flat | 6.4 | 14 |
| Mexico | Lug | 4.5-5.0 | 10-11 |
| Maple syrup | Gallon | 5.00 | 11.02 |
| Meadow fescue seed | Bushel | 10.9 | 24 |
| Milk | Gallon | 3.90 | 8.62 |
| Millet | Bushel | 21.8-22.7 | 48-60 |
| Molasses, edible | Gallon | 5.3 | 11.74 |
| Molasses, inedible | Gallon | 5.3 | 11.74 |
| | | | Contin |

Table 6—Individual commodity weights and measures—Continued

| Domino diter | Unit - | Approxima | te net weight |
|------------------------|---|--------------|------------------|
| Commodity | - Chit | Metric | United States |
| | | Kilograms | Pounds |
| Mustard seed | Bushel | 26.3-27.2 | 58-60 |
| Nectarines | Los Angeles lug, 2-layer | | |
| | tray pack | 10.0 | 22 |
| | Lug or carton, tight-fill | 11.3 | 25 |
| Oats | Bushel | 14.5 | 32 |
| Okra | Bushel hamper or crate | 13.6 | 30 |
| | 5/9-bushel crate | 8.2 | 18 |
| | Carton | 8.2 | 18 |
| | 12-quart basket, crate, | - | |
| | or carton | 6.8-8.2 | 15-18 |
| Olives | Lug | 11.3-13.6 | 25-30 |
| Olive oil | Gallon | 3.5 | 7.6 |
| Onions, dry | Sack | 22.7 | 50 |
| Onions, green bunched | Carton | 5.9 | 13 |
| Onion sets | Bushel | 12.7-14.5 | 28-32 |
| Oranges: | | | |
| Florida | 4/5-bushel carton | 19.5 | 43 |
| Texas | 7/10-bushel carton | 19.1 | 42 |
| California and Arizona | Carton | 17.2 | 38 |
| Orchardgrass seed | Bushel | 6.4 | 14 |
| Palm oil | Gallon | 3.5 | 7.7 |
| Papayas | Carton | 4.5 | 10 |
| Parsley | Carton, bushel basket, or cra | | 10 |
| | 5-dozen bunches | 9.1-11.3 | 20-25 |
| Parsnips | Bushel | 22.7 | 50 |
| Peaches | 34-bushel, carton/crate | 17.2 | 38 |
| | 2-layer carton or lug | 10 | 22 |
| Peanut oil | Gallon | 3.5 | 7.7 |
| Peanuts, unshelled: | | | ·•• |
| Virginia type | Bushel | 7.7 | 17 |
| Runners, southeastern | Bushel | 9.5 | 21 |
| Spanish— | | | _ _ . |
| Southeastern | Bushel | 11.3 | 25 |
| Southwestern | Bushel | 11.3 | 25 |
| ears: | - | | |
| California | Carton | 16.3 | 36 |
| - | 4/5-bushel carton | 20.9 | 46 |
| Northwest | 4/5-bushel carton | 20.4 | 45 |
| Peas, green: | - · · · · · · · · · · · · · · · · · · · | | |
| Unshelled | Bushel | 12.7-13.6 | 28-30 |
| Dry | Bushel | 27.2 | 60 |

Continued-

Table 6—Individual commodity weights and measures—Continued

| Na | Unit | Approxima | te net weight |
|-----------------|-----------------------------------|-------------------|---------------|
| Commodity | Omit | Metric | United States |
| | | Kilograms | Pounds |
| eppers, green | Bushel, 1-1/9-bushel | 10.7 | 20 |
| erilla seed | carton/crate Bushel | 12.7 16.8-18.1 | 28 37-40 |
| cilla sccu | Busilei | 10.6-16.1 | 37-40 |
| Persimmons | 2-layer tray pack, lug or carton | 9.1-11.3 | 20-25 |
| | 1-layer tray pack, flat or carton | 4.5-5.4 | 10-12 |
| Pineapples | Carton | 18.1 | 40 |
| lantains | Carton | 22.7 | 50 |
| lums | 1/2-bushel carton | 12.7 | 28 |
| runes | ½-bushel carton | 13.6 | 30 |
| omegranates | 2-layer carton or lug | 10.0-11.8 | 22-26 |
| opcorn: | | | |
| On ear | Bushel | 31.8 | 70 |
| Shelled | Bushel | 25.4 | 56 |
| oppy seed | Bushel | 20.9 | 46 |
| otatoes | Carton | 45.4 | 100 |
| | Sack | 45.4 | 100 |
| rickly pears | Box, wrapped pack | 8.2 | 18 |
| uinces | Carton/lug 2 layer | 10.0 | 22 |
| adishes, topped | Carton of 24, 8-ounce film bags | 5.4 | 12 |
| | Carton of 30, 6-ounce film bags | 5.0-5.4 | 11-12 |
| | 40-pound film bag | 18.1 | 40 |
| apeseed | Bushel | 22.7-27.2 | 50-60 |
| aspberries | Flat 12 ½-pint baskets | 2.7 | 6 |
| edtop seed | Bushel | 22.7-27.2 | 50-60 |
| efiners' syrup | Gallon | 5.2 | 11.45 |
| ice: | | | |
| Rough | Bushel | 20.4 | 45 |
| | Bag | 45.4 | 100 |
| | Barrel | 73.5 | 162 |
| Milled | Pocket or bag | 45.4 | 100 |
| osin | Drum, net | 236 | 520 |
| hubarb | Carton or lug | 9.1 | 20 |
| | 5-pound carton | 2.3 | 5 |
| utabagas | Sack | 22.7 | 50 |
| ye | Bushel | 25.4 | 56 |
| avory | Sack, crate, or carton | 16.8 | 37 |
| esame seed | Bushel | 20.9 | 46 |
| hallots | Sacks of 8, 5-pound bags | 18.1 | 40 |
| orgo: | | | |
| Seed | Bushel | 22.7 | 50 |
| Syrup | Gallon | 5.2 | 11.55 |
| orghum grain | Bushel | 25.4 | 56 |

Continued—

Table 6—Individual commodity weights and measures—Continued

| Soybeans Soybean oil Spelt Spinach Strawberries Sudangrass seed Sugarcane: Syrup (sulfured or unsulfured) | Bushel Gallon Bushel Bushel 12, 1-pint Bushel Gallon | Metric Kilograms 27.2 3.5 18.1 11.3 5.4 18.1 | Pounds 60 7.7 40 25 12 40 |
|---|--|--|-----------------------------|
| Soybean oil Spelt Spinach Strawberries Sudangrass seed Sugarcane: Syrup (sulfured | Gallon Bushel Bushel 12, 1-pint Bushel | 27.2 3.5 18.1 11.3 5.4 18.1 | 60 7.7 40 25 12 |
| Soybean oil Spelt Spinach Strawberries Sudangrass seed Sugarcane: Syrup (sulfured | Gallon Bushel Bushel 12, 1-pint Bushel | 3.5 18.1 11.3 5.4 18.1 | 7.7 40 25 12 |
| Soybean oil Spelt Spinach Strawberries Sudangrass seed Sugarcane: Syrup (sulfured | Bushel Bushel 12, 1-pint Bushel | 18.1 11.3 5.4 18.1 | 40 25 12 |
| Spelt Spinach Strawberries Sudangrass seed Sugarcane: Syrup (sulfured | Bushel 12, 1-pint Bushel | 18.1 11.3 5.4 18.1 | 40 25 12 |
| Spinach Strawberries Sudangrass seed Sugarcane: Syrup (sulfured | 12, 1-pint Bushel | 5.4 18.1 | 25 12 |
| Strawberries Sudangrass seed Sugarcane: Syrup (sulfured | Bushel | 18.1 | 12 |
| Sugarcane: Syrup (sulfured | Bushel | 18.1 | 40 |
| Sugarcane: Syrup (sulfured | Gallon | 5.2 | |
| Syrup (sulfured | Gallon | 5.2 | |
| or unsultured) | | | 11.45 |
| Sunflower seed | Bushel | 10.9-14.5 | 24-32 |
| Sweetpotatoes | Carton | 18.1 | 40 |
| | | 2011 | |
| Tangerines: | | | · · |
| California and Arizona | Carton | 11.3 | 25 |
| Florida | 4/5-bushel carton/crate | 19.5 | 43 |
| Timothy seed | Bushel | 20.4 | 45 |
| Tobacco: | | | |
| Maryland | Hogshead | 352 | 775 |
| Flue-cured | Hogshead | 431 | 950 |
| Burley | Hogshead | 442 | 975 |
| Dark air-cured | Hogshead | 522 | 1,150 |
| Virginia fire-cured Kentucky and Tennessee | Hogshead | 612 | 1,350 |
| fire-cured | Hogshead | 680 | 1,500 |
| Cigar-leaf | Case | 113-166 | 250-365 |
| | Bale | 68.0-79.4 | 150-175 |
| | Crate | 27.2 | 60 |
| l'omatoes | Carton | 11.3 | 25 |
| Conditions | 2-layer flat | 9.1 | 20 |
| Tomatoes, hothouse | 12-quart basket | 9.1 | 20 |
| Fung oil | Gallon | 3.5 | 7.8 |
| Turnips: | Guiton | | 7.0 |
| Without tops | Sack | 11.3 | 25 . |
| Bunched | Carton | 17.2 | 38 |
| Furpentine | Gallon | 3.3 | 7.23 |
| | | | |
| Velvetbeans (hulled) | Bushel | 27.2 | 60 |
| Vetch | Bushel | 27.2 | 60 |
| Walnuts | Sacks | 22.7 | 50 |
| Watermelon | Carton | 38.6 | 85 |
| | Bin | 476.3 | 1,050 |
| Watercress | Carton, 25 bunches | 3.6 | 8: |
| Wheat | Bushel | 27.2 | 60: |

Continued-

Note: Much of this table on individual commodity weights and measures was taken from Agricultural Statistics, 1990, prepared by USDA's National Agricultural Statistics Service, Agricultural Statistics Board. Some of the weights were suggested by the Agricultural Marketing Service, U.S. Department of Agriculture. The table covers many important agricultural products, but it does not cover all farm products or all containers for any one product.

The information was assembled from State schedules of legal weights, various sources within the U.S. Department of Agriculture, and materials from other Government agencies. For most products, especially fruits and vegetables, there is considerable variation in weight per unit of volume because of differences in variety, size, condition and tightness of pack, degree to which the container is heaped, and other factors. An effort was made to select representative averages for listed products. For commodities for which there is considerable shrinkage, the point of origin weight or weight at harvest was used.

The approximate or average weights given in this table do not necessarily have official standing as a basis for packing or as grounds for settling disputes. Nor are they all recognized as legal weights.

Considerable information is available on dimensions of the various units and containers listed in Agricultural Statistics.

Table 7—Factors used to convert pounds of carcass weight to retail and trimmed, boneless equivalent weights for red meats, $1970 \text{ to } 1991^1$

| 3.7 | В | eef | Po | rk² | V | eal | Lamb an | d mutton |
|---------------------------|--------------|----------|--------------|--------------|--------|--------------|---------|----------|
| Year | Retail | Boneless | Retail | Boneless | Retail | Boneless | Retail | Boneless |
| | | | | Kilog | rams | | | · . |
| 1970 | 0.337 | 0.318 | 0.349 | 0.303 | 0.378 | 0.312 | 0.406 | 0.300 |
| 1971 | .337 | .318 | .349 | .305 | .378 | .312 | .406 | .300 |
| 1972 | .337 | .318 | .350 | .308 | .378 | .312 | .406 | .300 |
| 1973 | .337 | .318 | .350 | .310 | .378 | .312 | .406 | .300 |
| 1974 | .337 | .318 | .351 | .312 | .378 | .312 | .406 | .300 |
| 1975 | .337 | .318 | .351 | .315 | .378 | .312 | .406 | .300 |
| 1976 | .337 | .318 | .352 | .317 | .378 | .312 | .406 | .300 |
| 1977 | .337 | .318 | .352 | .319 | .378 | .312 | .406 | .300 |
| 1978 | .337 | .318 | .352 | .321 | .378 | .312 | .406 | .300 |
| 1979 | .337 | .318 | .353 | .322 | .378 | .312 | .406 | .300 |
| 1980 | .337 | .318 | .353 | .324 | .378 | .312 | .406 | .300 |
| 1981 | .337 | .318 | .354 | .326 | .378 | .312 | .406 | .300 |
| 1982 | .337 | .318 | .354 | .327 | .378 | .312 | .406 | .300 |
| 1983 | .337 | .318 | .355 | .328 | .378 | .312 | .406 | .300 |
| 1984 | .337 | .318 | .355 | .329 | .378 | .312 | .406 | .300 |
| 1985 | .337 | .318 | .356 | .330 | .378 | .312 | .406 | .300 |
| 1986 | .333 | .315 | .355 | .331 | .378 | .312 | .406 | .300 |
| 1987 | .324 | .305 | .355 | .331 | .378 | .312 | .406 | .300 |
| 1988 | .321 | .304 | .354 | .332 | .378 | .312 | .406 | .300 |
| 1989 | .321 | .304 | .354 | .332 | .378 | .312 | .406 | .300 |
| 19 90 ² | .321 | .304 | .354 | .332 | .378 | .312 | .406 | .300 |
| 1991 ³ | .321 | .304 | .354 | .332 | .378 | .312 | .406 | .300 |
| 1//1 | .521 | .504 | .554 | .552 | .570 | .012 | .400 | .500 |
| | | | | Po | ounds | | | |
| 1970 | .740 | .698 | .765 | .665 | .830 | .685 | .890 | .658 |
| 1971 | .740 | .698 | .766 | .670 | .830 | .685 | .890 | .658 |
| 1972 | .740 | .698 | .767 | .675 | .830 | .685 | .890 | .658 |
| 1973 | .740 | .698 | .768 | .680 | .830 | .685 | .890 | .658 |
| 1974 | .740 | .698 | .769 | .685 | .830 | .685 | .890 | .658 |
| 1975 | .740 | .698 | .770 | .690 | .830 | .685 | .890 | .658 |
| 1976 | .740 | .698 | .771 | .695 | .830 | .685 | .890 | .658 |
| 1977 | .740 | .698 | .772 | .699 | .830 | .685 | .890 | .658 |
| 1978 | .740 | .698 | .773 | .703 | .830 | .685 | .890 | .658 |
| 1979 | .740 | .698 | .774 | .707 | .830 | .68 <i>5</i> | .890 | .658 |
| 1980 | .740 | .698 | .775 | .711 | .830 | .685 | .890 | .658 |
| 1981 | .740 | .698 | .776 | .715 | .830 | .685 | .890 | .658 |
| 1982 | .740 | .698 | .777 | .717 | .830 | .685 | .890 | .658 |
| 1983 | .740 | .698 | .778 | .719 | .830 | .685 | .890 | .658 |
| 1984 | .740 | .698 | .779 | .721 | .830 | .685 | .890 | .658 |
| 1985 | .740 | .698 | .780 | .721 | .830 | .685 | .890 | .658 |
| 1986 | .730 | .690 | .760 .779 | .725 .725 | .830 | .685 | .890 | .658 |
| 1987 | .710 | .670 | .778 | .727 | .830 | .685 | .890 | .658 |
| 1988 | .710 | .667 | .777 | .727 | .830 | .685 | .890 | .658 |
| 1989 | .703 .705 | .667 | .777 .776 | .728 .729 | .830 | .685 | .890 | .658 |
| 1989 1990 ² | .705 | .667 | .776 .776 | .729 | .830 | .685 | .890 | .658 |
| 1990 1991 ³ | .705 | .667 | .776 | .729 | .830 | .685 | .890 | .658 |
| 1771 | . 103 | .007 | . / /0 | .129 | .630 | .003 | .090 | ەدە. |

¹ERS estimates.

²Revised 1991.

³Preliminary.

Table 8—Cattle, calves, sheep and lambs, and hogs slaughtered: Average live weight and dressing yields, 1980-89 and 1990

| Consider | | Live weight, | Dressing yield ¹ (federally inspected) | | | |
|-----------------|--------|---------------|---|--------------|---------------------|------|
| Species | | rage, 0-89 | 1990 | | Average, 1980-89 | 1990 |
| | Pounds | Kilograms | Pounds | Kilograms | Perc | ent |
| Cattle | 1,091 | 494.9 | 1,136 | 515.3 | 59.4 | 60.2 |
| Calves | 248 | 112.5 | 283 | 128.4 | 60.9 | 63.2 |
| Sheep and lambs | 115 | 52.2 | 125 | 56 .7 | 50.2 | 50.8 |
| Hogs | 245 | 111.1 | 249 | 112.9 | 71.5 | 72.4 |

¹Dressing yield is the ratio of carcass weight to live weight.

Source: U.S. Dept. Agr., National Agricultural Statistics Service, Livestock Slaughter, Annual Summary, selected issues.

Table 9—Yield of trimmed, mostly boneless retail cuts and lean trim from steer beef carcasses by yield grade and degree of marbling, for two levels of fat remaining on cuts

| TC1 : 1 | | Yie | eld grade | ; | Γ | Degree of marbling | | | |
|----------------------------|-------|-----------|-----------|-----------|-----------|--------------------|-----------|--------------------|--------|
| Thickness of fat remaining | 1 | 2 | 3 | 4 | 5 | Traces | Slight | Small ¹ | Modest |
| | P | Counds of | f mostly | boneless, | trimmed | cuts per poun | d of carc | ass weigh | ut^2 |
| 8 mm (.32 in.) | 0.781 | 0.750 | 0.721 | 0.689 | NA | 0.778 | 0.746 | 0.724 | 0.700 |
| 0 mm | .735 | .697 | .666 | .633 | NA | .728 | .694 | .669 | .643 |
| | Kilog | rams of | mostly b | oneless, | trimmed r | etail cuts per | pound of | carcass 1 | weight |
| 8 mm (.32 in.) | .356 | .342 | .329 | .314 | NA | .355 | .340 | .330 | .319 |
| 0 mm | .335 | .318 | .304 | .289 | NA | .332 | .316 | .305 | .293 |

NA = Not available.

Source: All based on data from the Roman L. Hruska U.S. Meat Animal Research Center, reported in J.D. Crouse, L.V. Cundiff, R.M. Koch, and M.E. Dikeman, "Closely vs. Totally Trimmed Retail Product Yields of Carcass Beef," *Journal of Animal Science*, 66 (Supp. 1), p. 125.

¹"Small" is the minimum degree of marbling to qualify a young carcass for the Choice quality grade.

²Boneless except dorsal and transverse spinous processes left in short loin and dorsal spinous processes and rib bones left in rib cuts

Table 10-Veal and calf: Yield of bone-in cuts and boneless meat plus boneless to bone-in conversion factors

| Carcass and wholesale cuts | wholes | of bone-in ale cuts per nds of carcass | meat ¹ per | immed boneless 100 pounds of wholesale cut | Factors for converting pounds of boneless meat to untrimmed bone-in equivalent | | |
|----------------------------|--------------------|--|-----------------------|--|--|---|--|
| | Choice and Good | Standard, Utility, and Cull ² | Choice and Good | Standard, Utility, and Cull ² | Choice and Good | Standard, Utility, and Cull ² | |
| | | | F | Pounds | | : | |
| Carcass, whole | 100.0 | 100.0 | 68.5 | 69.5 | 1.46 | 1.44 | |
| Foresaddle | 48.6 | 49.7 | 70.4 | 69.3 | 1.42 | 1.45 | |
| Chuck | 26.1 | 27.6 | 73.5 | 72.8 | 1.36 | 1.38 | |
| Breast | 14.3 | 14.3 | 62.8 | 62.6 | 1.59 | 1.62 | |
| Hotel rack, 7 ri | ib 8.2 | 7.8 | 73.8 | 69.3 | 1.35 | 1.45 | |
| Hindsaddle | 51.4 | 50.3 | 66.6 | 70.1 | 1.51 | 1.44 | |
| Leg, includes | | | | | | | |
| sirloin | 36.4 | 38.8 | 72.8 | 73.5 | 1.38 | 1.37 | |
| Loin | 7.0 | 6.4 | 73.3 | 69.8 | 1.36 | 1.45 | |
| Flank | 4.8 | 3.4 | 53.4 | 68.5 | 1.87 | 1.48 | |
| Kidney knob | 3.2 | 1.7 | | Walterhoose | | | |
| | | | Kii | lograms | | | |
| Carcass, whole | 45.59 | 45.59 | 31.23 | 31.69 | .67 | .66 | |
| Foresaddle | 22.16 | 22.66 | 32.10 | 31.60 | .65 | .66 | |
| Chuck | 11.90 | 12.58 | 33.51 | 33.19 | .62 | .63 | |
| Breast | 6.52 | 6.52 | 28.63 | 28.54 | .72 | .74 | |
| Hotel rack, 7 ri | b 3.74 | 3.56 | 33.65 | 31.60 | .62 | .66 | |
| Hindsaddle | 23.43 | 22.93 | 30.36 | 31.96 | .69 | .66 | |
| Leg, includes | | | | | | | |
| sirloin | 16.60 | 17.69 | 33.19 | 33.51 | .63 | .62 | |
| Loin | 3.19 | 2.92 | 33.42 | 31.82 | .62 | .66 | |
| Flank | 2.19 | 1.55 | 24.35 | 31.23 | .85 | .67 | |
| Kidney knob | 1.46 | .78 | 0 | 0 | 0 | 0 | |

^{— =} Not applicable.

¹All cuts trimmed of fat exceeding ¼ to ½ inch.

²Cull grade no longer used.

Table 11—Choice beef: Yields of retail cuts per pound of carcass weight by yield grade¹

| D 4 114 | | | Yield grade | | |
|----------------------|-------|--------|-------------|-------|-------|
| Retail cut | 1 | 2 | 3 | 4 | 5 |
| | | | Pounds | | |
| Rump, boneless | 0.037 | 0.035 | 0.033 | 0.031 | 0.029 |
| Inside round | .049 | .045 | .041 | .037 | .033 |
| Outside round | .048 | .046 | .044 | .042 | .040 |
| Round tip | .027 | .026 | .025 | .024 | .023 |
| Sirloin | .091 | .087 | .083 | .079 | .075 |
| Short loin | .053 | .052 | .051 | .050 | .049 |
| Blade chuck | .099 | .094 | .089 | .084 | .079 |
| Rib, short, 7 inches | .063 | .062 | .061 | .060 | .059 |
| Chuck arm, boneless | .064 | .061 | .058 | .055 | .052 |
| Brisket, boneless | .025 | .023 | .021 | .019 | .017 |
| Flank steak | .005 | .005 | .005 | .005 | .005 |
| Lean trim | .123 | .113 | .103 | .093 | .083 |
| Ground beef | .133 | .122 | .111 | .100 | .089 |
| Kidney | .003 | .003 • | .003 | .003 | .003 |
| Salable retail cuts | .820 | .774 | .728 | .682 | .636 |
| Fat | .076 | .127 | .178 | .229 | .280 |
| Bone | .104 | .099 | .094 | .089 | .084 |
| Total | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| | | | Kilograms | | |
| Rump, boneless | .017 | .016 | .015 | .014 | .013 |
| Inside round | .022 | .021 | .019 | .017 | .015 |
| Outside round | .022 | .021 | .020 | .019 | .018 |
| Round tip | .012 | .012 | .011 | .011 | .010 |
| Sirloin | .041 | .040 | .038 | .036 | .034 |
| Short loin | .024 | .024 | .023 | .023 | .022 |
| Blade chuck | .045 | .043 | .041 | .038 | .036 |
| Rib, short, 7 inches | .029 | .028 | .028 | .027 | .027 |
| Chuck arm, boneless | .029 | .028 | .026 | .025 | .024 |
| Brisket, boneless | .011 | .010 | .010 | .009 | .008 |
| Flank steak | .002 | .002 | .002 | .002 | .002 |
| Lean trim | .056 | .052 | .047 | .042 | .038 |
| Ground beef | .061 | .056 | .051 | .046 | .041 |
| Kidney | .001 | .001 | .001 | .001 | .001 |
| Salable retail cuts | .374 | .353 | .332 | .311 | .290 |
| Fat | .035 | .058 | .081 | .104 | .128 |
| Bone | .047 | .045 | .043 | .041 | .038 |
| Total | .456 | .456 | .456 | .456 | .456 |

¹Reflects fat trim levels of ¼ to ½ inch (6.35 to 12.7 mm)

Source: U.S. Dept. Agr., Consumer and Marketing Service, USDA Yield Grades for Beef, Marketing Bulletin 45, revised May 1974.

Table 12-Physical composition of raw retail beef cuts trimmed to 1/4-inch fat

| Cut and grade | Separable lean | Separable fat | Refuse ¹ | Cut and grade | Separable lean | Separable fat | Refuse ¹ |
|--------------------|-------------------|------------------|---------------------|-----------------|-------------------|------------------|---------------------|
| | | Percent | | | | Percent | |
| All grades: | | | | ChoiceContinued | | | |
| Brisket— | | | | Shank | 60.0 | 6.0 | 34.0 |
| Whole | 69.6 | 30.1 | 0.3 | Short loin— | | | |
| Flat-half | 72.8 | 27.2 | 0 | Porterhouse | 63.0 | 18.5 | 18.5 |
| Point-half | 66.8 | 32.6 | .6 | T-bone | 60.6 | 17.1 | 22.3 |
| Chuck | | | | Top loin | 71.7 | 18.5 | 9.8 |
| Arm | 66.9 | 17.9 | 15.2 | Tenderloin | 74.7 | 23.6 | 1.7 |
| Blade | 64.8 | 16.3 | 18.9 | Top sirloin | 79.0 | 15.8 | 5.2 |
| Rib | | | | • | | | |
| Whole | 58.5 | 25.4 | 16.1 | Select: | | | |
| Large end | 57.5 | 26.4 | 16.1 | Chuck | | | |
| Small end | 60.2 | 23.8 | 16.0 | Arm | 68.0 | 16.5 | 15.5 |
| Round- | | | | Blade | 66.3 | 14.7 | 19.0 |
| Bottom | 85.2 | 11.9 | 2.9 | Rib | | | |
| Eye | 84.8 | 14.5 | .7 | Whole | 60.3 | 23.7 | 16.0 |
| Tip | 83.1 | 13.3 | 3.6 | Large end | 59.4 | 24.3 | 16.3 |
| Top | 89.5 | 8.5 | 2.0 | Small end | 61.9 | 22.8 | 15.3 |
| Tenderloin | 74.9 | 23.7 | 1.4 | Round | | | |
| Top loin | 73.6 | 17.5 | 8.9 | Full cut | 83.0 | 11.1 | 5.9 |
| Top sirloin | 80.0 | 14.9 | 5.1 | Bottom | 86.5 | 11.3 | 2.2 |
| | | | | Eye | 85.7 | 13.8 | .5 |
| Choice: | | | | Tip | 84.7 | 12.1 | 3.2 |
| Chuck- | | | | Top | 89.9 | 8.3 | 1.8 |
| Arm | 66.0 | 19.0 | 15.0 | Tenderloin | 75.0 | 23.8 | 1.2 |
| Blade | 63.4 | 17.7 | 18.9 | Top loin | 75.7 | 16.5 | 7.8 |
| Flank ² | 93.0 | 5.0 | 2.0 | Top sirloin | 81.2 | 13.9 | 5.0 |
| Rib | | | | | | | |
| Whole | 56.8 | 26.8 | 16.4 | Prime: | | | |
| Eye ² | 75.0 | 20.7 | 4.3 | Rib | | | |
| Large end | 55.8 | 28.2 | 16.0 | Whole | 56.1 | 28.6 | 15.3 |
| Small end | 58.6 | 24.7 | 16.7 | Large end | 55.1 | 31.0 | 13.9 |
| Shortribs | 41.0 | 32.0 | 27.0 | Small end | 57.5 | 25.0 | 17.5 |
| Round- | | | | Round- | | | |
| Full cut | 83.0 | 11.1 | 5.9 | Tip | 82.5 | 12.1 | 5.4 |
| Bottom | 84.1 | 12.5 | 3.4 | Тор | 93.7 | 4.9 | 1.4 |
| Eye | 84.0 | 15.1 | .9 | Tenderloin | 74.9 | 22:3 | 2.8 |
| Tip | 81.6 | 14.2 | 4.2 | Top loin | 72.4 | 22.3 | 5.3 |
| Top | 89.1 | 8.6 | 2.3 | | | | |

¹Mostly bone or connective tissue. ²Trimmed to 0-inch fat.

Source: U.S. Dept. Agr., Human Nutrition Information Service, Composition of Foods: Beef Products, AH-8-13, May 1990, pp. 19-22.

Table 13—Fresh pork from barrows and gilts: Yields of selected cuts

| Carcass and wholesale cuts | Y | ield of whol | | per | | f trimmed eat per pound | Factors for converting 1 pound of boneless | | |
|----------------------------|-------------|--------------|--------|-----------|----------|----------------------------|--|----------------------------|--|
| wholesale cuts | Live weight | | | Carcass | | of wholesale cut | | meat to bone-in equivalent | |
| | Pounds | Kilograms | Pounds | Kilograms | Pounds | Kilograms | Pounds | Kilograms | |
| Packer-dressed carcass | 0.7350 | 0.335 1 | 1.0000 | 0.455 9 | 0.7290 | 0.332 4 | 1.3700 | 0.624 6 | |
| Boneless, skinless meat | .5358 | .244 3 | .7290 | .332 4 | 1.0000 | .455 9 | 1.0000 | .455 9 | |
| Hams: | | | | | | | | | |
| Skinned, bone-in | .1770 | .080 7 | .2408 | .109 8 | .6600 | .300 9 | 1.5200 | .693 0 | |
| Skinned, semi-boneless | .1416 | .064 6 | .1927 | .087 9 | .8000 | .364 7 | 1.2500 | .569 9 | |
| Skinless, boneless | .1168 | .053 3 | .1589 | .072 4 | 1.0000 | .455 9 | 1.0000 | .455 9 | |
| Shoulders: | | | | | | | | | |
| Picnics— | | | | | | | | | |
| Skinned, bone-in | .0680 | .031 0 | .0925 | .042 2 | .7500 | .341 9 | 1.3300 | .606 4 | |
| Skinless, boneless | .0510 | .023 3 | .0694 | .031 6 | 1.0000 | .455 9 | 1.0000 | .455 9 | |
| Butts, skinless- | | | | | | | | | |
| Bone-in (Boston) | .0480 | .021 9 | .0653 | .029 8 | .9400 | .428 6 | 1.0600 | .483 3 | |
| Boneless | .0451 | .020 6 | .0614 | .028 0 | 1.0000 | .455 9 | 1.0000 | .455 9 | |
| Loins: | | | | | | | | | |
| Bone-in | .1380 | .062 9 | .1878 | .085 6 | .7800 | .355 6 | 1.2800 | .583 6 | |
| Boneless | .1076 | .049 1 | .1464 | .066 7 | 1.0000 | .455 9 | 1.0000 | .455 9 | |
| Bellies: | | | | | | | | | |
| Slab, skin on | .1250 | .057 0 | .1701 | .077 6 | .7500 | .341 9 | 1.3300 | .606 4 | |
| Slab, skin off | .0938 | .042 8 | .1276 | .058 2 | 1.0000 | .455 9 | 1.0000 | .455 9 | |
| Jowls (bacon squares) | .0100 | .004 6 | .0136 | .006 2 | | | | | |
| Spareribs | .0290 | .013 2 | .0395 | .018 0 | | | | | |
| Feet, front | .0080 | .003 6 | .0109 | .005 0 | | _ | | | |
| Tails | .0020 | .000 9 | .0027 | .001 2 | Millered | | _ | | |
| Neckbones | .0100 | .004 6 | .0136 | .006 2 | | | | | |
| Trimmings: | | | | | | | | | |
| 72-percent lean | .0270 | .012 3 | .0367 | .016 7 | | | | | |
| 42-percent lean | .0090 | .004 1 | .0122 | .005 6 | | | | | |
| Fat, skin, and other | .0570 | .026 0 | .0776 | .035 4 | | | | | |
| Bone | .1417 | .064 6 | .1928 | .087 9 | | | Auditoria | | |
| Shrink and loss | .0270 | .012 3 | .0367 | .016 7 | | | | | |

^{— =} Not applicable.

Source: Lawrence A. Duewer, Kevin Bost, and Gene Futrell, "Revisions in Conversion Factors for Pork Consumption Series," Livestock and Poultry Situation and Outlook Report, LPS-45, Jan. 1991, p. 37.

Table 14—Lamb: Yields of bone-in cuts and boneless meat plus boneless to bone-in conversion factors¹

| Wholesale cuts | pounds | per 100 of carcass eight | per 100 | ess meat pounds of sale cut ² | trimmed b | r converting oneless meat equivalent ² |
|-----------------------------|--------|--------------------------------|---------|--|-----------|---|
| | Pounds | Kilograms | Pounds | Kilograms | Pounds | Kilograms |
| Carcass, whole ³ | 100.0 | 45.592 | 65.8 | 30.000 | 1.52 | 0.693 |
| Foresaddle, whole | 51.4 | 23.434 | 65.9 | 30.045 | 1.52 | .693 |
| Breast, including shank | 16.4 | 7.477 | 59.9 | 27.310 | 1.67 | .761 |
| Chuck | 27.2 | 12.401 | 70.2 | 32.006 | 1.42 | .647 |
| Hotel rack | 7.8 | 3.556 | 63.5 | 28.951 | 1.57 | .716 |
| Hindsaddle, whole | 48.6 | 22.158 | 65.7 | 29.954 | 1.52 | .693 |
| Leg | 31.0 | 14.134 | 69.0 | 31.459 | 1.45 | .661 |
| Loin, including flank | | | | | | |
| and kidney | 17.6 | 8.024 | 60.3 | 27.492 | 1.66 | .757 |

¹Based on Prime, Choice, and Good yield grade 3 carcasses.

Table 15—Poultry: Average live weight and ready-to-cook yield, 1986-901

| | | Average 1 | live weight | | Yield, live to 1 | eady-to-cook ² |
|----------------|--------------------------------|-----------|--------------------------------|-------|--------------------------------|---------------------------|
| Poultry | 1986-89 weighted average | 1990 | 1986-89 weighted average | 1990 | 1986-89 weighted average | 1990 |
| | Kilog | rams | Pou | nds | Perc | ent |
| Chicken: | Ū | | | | | |
| Young | 1.95 | 1.98 | 4.29 | 4.37 | 72.59 | 72.62 |
| Mature | 2.07 | 2.14 | 4.57 | 4.71 | 61.73 | 61.01 |
| All | 1.95 | 1.99 | 4.30 | 4.38 | 72.11 | 72.25 |
| Γurkeys: | | | | | | |
| Roaster, fryer | 4.38 | 4.43 | 9.65 | 9.77 | 77.70 | 77.99 |
| Young | 9.40 | 9.68 | 20.72 | 21.34 | 79.31 | 79.16 |
| Old | 10.55 | 11.11 | 23.27 | 24.49 | 76.55 | 76.74 |
| All | 9.32 | 9.64 | 20.56 | 21.25 | 79.28 | 79.13 |
| Ducks | 2.96 | 2.98 | 6.54 | 6.57 | 70.71 | 70.78 |

¹Based on total poultry slaughtered under Federal inspection.

²USDA boning practice of cuts trimmed to ¼ inch of fat.

³Heart, lungs, trachea, and esophagus have been removed.

Source: U.S. Dept. Agr., Economics, Statistics, and Cooperatives Service, Conversion Factors and Weights and Measures for Agricultural Commodities and Their Products, SB-616, Mar. 1979, p. 20 (unchanged except for metrication).

²Yield of ready-to-cook weight, including neck and giblets, as a percentage of total live weight inspected.

Source: U.S. Dept. Agr., National Agricultural Statistics Service, Poultry Slaughter, May issues.

Table 16—Milk products: Federal standards of composition and average commercial contents

| | | Federal | standards | 1 | | C |
|-------------------------------|-------------------|-----------------|---------------|---|---------|-------------------------------|
| Dairy products | Milkfar minimu | | lkfat imum | Milk sol not fat min | | Commercial 1989 milkfat |
| | | | Per | cent | | |
| Milks: | | | | | | |
| Whole | 3.25 | | _ | 8.25 | | 3.30 |
| Lowfat | .50 | 2 | 2.0 | 8.25 | | 1.74 |
| Skim | | | .5 | 8.25 | 5 | .20 |
| Creams and mixtures: | | | | | | |
| Light | 18.0 | 30 | 0.0 | - | | 18.84 |
| Light whipping | 30.0 | 36 | 5.0 | - | | |
| Heavy | 36.0 | | - | - | | 35.86 |
| Sour | 18.0 | | - | · Inc. construit | | 17.31 |
| Half and half | 10.5 | 18 | 3.0 | - | | 10.91 |
| Eggnog | 6.0 | | - | 8.25 | ; | 7.61 |
| - | Fed | leral standards | S | | Commerc | cial |
| | Milkfat | Tota | l milk | *************************************** | | Milk solids |
| | minimur | n solids n | ninimum | Mil | kfat | not fat |
| - | | | P | ercent | | |
| Condensed products: | | | | | | |
| Evaporated milk | 7.5 | 2 | 25.5 | , | 7.90 | 18.00 |
| Sweetened condensed milk | 8.5 | | 28.0 | | 8.50 | 19.50 |
| Condensed skim milk | | - | - | | .20 | 29.80 |
| Sweetened condensed skim milk | | 2 | 4.0 | | .20 | 29.80 |
| Condensed buttermilk | anang. | _ | | : | 1.50 | 26.40 |
| - | Federal standards | | | | | |
| - | Mill | kfat | Mil | k solids | Total m | nilk solids |
| | Minimum | Maximum | | minimum | Minimum | Maximum |
| - | | | p, | ercent | | |
| Frozen products: | | | 1 6 | | | |
| Ice cream | 10.0 | ***** | | 6.0 | 20.0 | - |
| Ice milk | 2.0 | 7.0 | | | 11.0 | |
| Fruit sherbet | 1.0 | 2.0 | | | 2.0 | 5.0 |
| | | | | | | Continu |

Table 16-Milk products: Federal standards of composition and average commercial contents-Continued

| | Federal | standards | Com | mercial |
|-----------------------------|--------------------|---------------------|------------|------------------------|
| Dairy products | Milkfat minimum | Moisture maximum | Milkfat | Milk solids not fat |
| | | Pe | ercent | |
| Dry products: | | | | |
| Dry whole milk | 26.0 | 5.0 | 26.50 | 71.00 |
| Nonfat dry milk | 1.5 | 5.0 | .80 | 96.20 |
| Dry buttermilk ¹ | 4.5 | 4.0 | 5.30 | 91.90 |
| Dry whey ¹ | - | 5.0 | 1.20 | 94.30 |
| | Federal | standards | Commercial | |
| | Milkfat | minimum | Milkfat | Milk solids not far |
| | | | Percent | |
| Milkfat products: | | | | |
| Butter | 8 | 0.0 | 80.30 | 1.00 |
| Butteroil, anhydrous | | | | |
| milkfat, or ghee | _ | - | 99.80 | .10 |
| Plastic cream | _ | | 80.10 | 1.10 |

^{— =} Not applicable.

Sources: U.S. Dept. Agr., Food Safety and Quality Service, Federal and State Standards for the Composition of Milk Products (and Certain Non-Milkfat Products) as of January 1, 1980, Handbook No. 51, revised Sept. 1980.

¹Standards for U.S. Extra Grade.

Table 17—Limits on selected contents of cheeses

| Cheese products | Milkfat in solids | | isture |
|---------------------------------|-------------------|---|----------|
| • | minimum | Minimum | Maximum |
| | | Percent | |
| Hard: | | rerceni | |
| Asiago— | | | |
| Fresh | 50.0 | - | 45.0 |
| Medium | 45.0 | - | 35.0 |
| Aged | 42.0 | waterspiece . | 32.0 |
| Blue | 50.0 | | 46.0 |
| Brick | 50.0 | - | 44.0 |
| Brie or Camembert ¹ | 50.0 | *************************************** | - |
| Cheddar | 50.0 | | 39.0 |
| Colby | 50.0 | | 40.0 |
| Edam | 40.0 | *************************************** | 45.0 |
| Gorgonzola | 50.0 | ***** | 42.0 |
| Gouda | 46.0 | *************************************** | 45.0 |
| Granular | 50.0 | | 39.0 |
| Gruyere | 45.0 | - | 39.0 |
| Hard | 50.0 | | 39.0 |
| Hard grating | 32.0 | | 34.0 |
| Monterey | 50.0 | | 44.0 |
| High-moisture jack | 50.0 | 40.0 | 50.0 |
| Mozzarella or Scamorza— | 30.0 | 40.0 | 50.0 |
| Whole milk | 45.0 | 52.0 | 60.0 |
| Low-moisture | 45.0 | 45.0 | 52.0 |
| | 30.0 | 52.0 | 60.0 |
| Part skim | | | 52.0 |
| Low-moisture/part skim | 30.0 | 45.0 | |
| Munster | 50.0 | accompanies. | 46.0 |
| Parmesan | 32.0 | | 32.0 |
| Provolone | 45.0 | | 45.0 |
| Romano | 38.0 | - Company | 34.0 |
| Swiss (Emmentaler) | 43.0 | | 41.0 |
| Semisoft | 50.0 | 39.0 | 50.0 |
| Washed curd | 50.0 | | 42.0 |
| Pasteurized processed products- | 2 | | 3 |
| Cheese | | | |
| Cheese food | 23.0 | | 44.0 |
| Cheese spread | 20.0 | 44.0 | 60.0 |
| | Milk | | Moisture |
| | Minimum | Maximum | maximum |
| | | Percent | |
| Fresh: | | | |
| Cottage | 4.0 | | 80.0 |
| Lowfat cottage | .5 | 2.0 | 82.5 |
| Cream | 33.0 | nomeno. | 55.0 |
| Neufchatel | 20.0 | 33.0 | 65.0 |

^{— =} Not applicable.

1 Covered by the standard for soft ripened cheese.

2 Same as for cheese used or average of cheeses used but not less than 47.0, except for Swiss and Gruyere.

3 1 percent above moisture of cheese used or average of cheeses used but generally limited to 43.0 percent.

Source: U.S. Dept. Agr., Food Safety and Quality Service. Federal and State Standards for the Composition of Milk Products (and Certain Non-Milkfat Products) as of January 1, 1980, Handbook No. 51, revised Sept. 1980.

Table 18—Manufactured dairy products: Factors for obtaining farm milk equivalent on milkfat and skim solids bases¹

| Dun dans | Milkfat basis | Skim solids basis |
|-----------------|---------------|--|
| Product | | . The symbol control of the state of the sta |
| Butter | 21.8 | 0.12 |
| American cheese | 9.23 | 9.9 |
| Other cheese | 7.49 | 9.99 |
| Canned milk | 2.15 | 2.09 |
| Ory whole milk | 7.36 | 8.26 |
| Nonfat dry milk | .22 | 11.58 |

¹Used to convert weight of manufactured dairy products to equivalent weight of farm milk. Subject to change as technical parameters become available.

Table 19—Dairy products: Net weight of standard units¹

| Product | Grams per liter | Pounds per gallon | Pounds per liter | Kilograms per gallon | |
|------------------------------|--------------------|-------------------|---------------------|----------------------|--|
| Whole milk with 3.7% fat, | | | | | |
| 8.62% S.N.F. ² | 1 031 | 8.60 | 2.27 | 3.90 | |
| Milk, standardized, 3.5% | | | | | |
| fat 8.64% S.N.F. | 1 032 | 8.61 | 2.28 | 3.91 | |
| Skim milk, regular | 1 034 | 8.63 | 2.28 | 3.91 | |
| Skim milk, modified | 1 039 | 8.67 | 2.29 | 3.93 | |
| Cultured buttermilk | 1 038 | 8.66 | 2.29 | 3.93 | |
| Half and half, regular | 1 023 | 8.54 | 2.26 | 3.87 | |
| Chocolate flavored milk | 1 054 | 8.80 | 2.33 | 3.99 | |
| Chocolate flavored drink | 1 054 | 8.80 | 2.33 | 3.99 | |
| Cream: | | | | | |
| 18% | 1 019 | 8.50 | 2.25 | 3.86 | |
| 20% | 1 017 | 8.49 | 2.24 | 3.85 | |
| 36% | 1 003 | 8.37 | 2.21 | 3.80 | |
| 40% | 1 001 | 8.35 | 2.21 | 3.79 | |
| Evaporated milk ³ | $19 730^2$ | 43.5^{2} | | | |

^{- =} Not applicable.

¹At 10°C (50°F).

²S.N.F. = Solids not fat.

³Evaporated milk weights are per case of 48, 14.5-ounce cans.

Table 20—Limits on content of selected ingredients for categories of processed meat products

| Product | Ingredients | Minimum of ¹ | Maximum of ¹ | |
|--|-----------------------------------|-------------------------|-------------------------|--|
| | | Percent | | |
| Baby food: | 2 | | | |
| High meat dinner | Meat ² | 26 | - | |
| Meat and broth | Meat | 61 | | |
| Vegetable with meat | Meat | 8 | | |
| Bacon (cooked) | Uncooked bacon | 40 | | |
| Bacon and tomato spread | Cooked bacon | 20 | | |
| Bacon dressing | Smoked bacon | 8 | | |
| Barbecue sauce with meat | Meat (cooked basis) | 35 | | |
| Barbecued meat | Fresh uncooked meat | - | 70 | |
| Beans with bacon or ham in sauce | Bacon or ham | 12 | - | |
| Beans with frankfurters in sauce | Franks | 20 | | |
| Beans with meat in sauce | Meat | 12 | | |
| Beans with meatballs in sauce | Meatballs | 20 | | |
| Beef a la king | Beef (cooked basis) | 20 | | |
| Beef a la mode | Beef | 50 | | |
| Beef almondine with vegetables | Beef (cooked basis) | 18 | | |
| Beef and dumplings with gravy or | ZIII (COOKER CADID) | 10 | | |
| beef and gravy with dumplings | Beef | 25 | - | |
| Beef burgundy | Beef | 50 | | |
| Beef carbonade | Beef | 50 | | |
| Beef roulade | Beef (cooked basis) | 50 | | |
| Beef sausage (raw) | Fat | | 30 | |
| , | Water | | 3 | |
| Beef Stroganoff | Uncooked beef | 45 | | |
| | Cooked beef | 30 | | |
| Beef with barbecue sauce | Beef (cooked basis) | 50 | | |
| Beef with gravy | Beef (cooked basis) | 50 | - | |
| Breaded steaks, chops, and other | Breading | | 30 | |
| Breakfast (frozen product containing meat) | Cooked meat | 15 | | |
| Breakfast sausage | Fat | Min Principals | 50 | |
| • | Water | | 3 | |
| | Binders and extenders | | 3.5 | |
| Brown and serve sausage | Fat | - | 35 | |
| - | Added water | | 10 | |
| Brunswick stew | Meat (at least 2 kinds) | 25 | | |
| Burgundy sauce with beef and noodles | Beef (cooked basis) | 25 | | |
| | Noodles | | 20 | |
| Burrito | Meat | 15 | | |
| Cabbage rolls with meat in sauce | Meat | 12 | | |
| Cannelloni with meat and sauce | Meat | 10 | | |
| Cappelletti with meat in sauce | Meat | 12 | | |
| Cheesefurter | Sufficient cheese to characterize | 1 to | *********** | |
| Chili con carne | Meat | 40 | - | |
| Chili con carne with beans | Meat | 25 | | |
| Chili hot dog with meat | Meat in chili | 40 | | |
| Chili mac | Meat | 16 | - | |
| Chili sauce with meat | Meat | 6 | | |
| Chop suey (American style) with | | v | | |
| (. minariani nalia) mini | 3.6 | 25 | | |
| macaroni and meat | Meat | 7 | | |
| macaroni and meat Chop suey vegetables with meat | Meat Meat | 25 12 | | |

See footnotes at end of table.

Table 20—Limits on content of selected ingredients for categories of processed meat products—Continued

| Product | Ingredients | Minimum of ¹ | Maximum of 1 |
|---|---|--|---------------|
| | | Per | cent |
| Chow mein vegetables with meat | Meat | 12 | |
| | Noodles | | 33.3 |
| how mein vegetables with meat and noodles | Meat | 8 | |
| orn dog | Frankfurter | 35 | Name |
| | Batter | | 65 |
| orned beef and cabbage | Corned beef (cooked basis) | 25 | |
| forned beef hash | Beef (cooked basis) | 35 | |
| onios ocor nasii | Fat | 33 | 15 |
| | Moisture | atings. | 72 |
| lorintuis home | Salt | 4 | 12 |
| ountry ham | Sait | 4 | · |
| reamed meat products or creamed | N/ 4 1 / - 1 - 11 - 1 \ . | 10 | |
| sauce with meat products | Meat product (cooked basis) | 18 | |
| repe with meat | Meat (cooked basis) | 20 | - |
| | Meat (cooked with another major ingredient) | | _ |
| Croquettes | Meat (cooked basis) | 35 | - |
| | Meat (fresh basis) | 50 | - |
| curried sauce with meat and rice | Meat (cooked basis) | 35 | marks . |
| | Cooked rice | - | 50 |
| Deviled ham | Fat | | 35 |
| | Added moisture | | 0 |
| | Added cereal | - | 0 |
| Dinner (frozen product containing meat) | Meat (cooked basis) | 25 | |
| Dumplings with meat in sauce | Meat | - 18 | : |
| gg foo yong with meat | Meat | 12 | |
| gg roll with meat | Meat | 10 | |
| gg roll with meat and seafood | Meat | 5 | - |
| ggs benedict | Cured smoked ham | 18 | |
| nchilada with meat | Meat | 15 | - |
| Intree, meat or meat food product | | ,15 | |
| and one vegetable | Meat (cooked basis) | 50 | |
| rankfurter, bologna, and similar | Fat | | 30 |
| cooked sausage (skeletal meat only) | Added water | - | 10 |
| coned suddage (sherear mear only) | Corn syrup | - | 2 |
| | Poultry meat | | 15 |
| rankfurter, bologna, and similar cooked | Skeletal meat | 15 | 13 |
| sausage with byproducts or variety meats | | | - |
| sausage with opproducts of variety means | Must be distinctively labeled byproducts and variety meats individually named in ingredient list— | | |
| | Fat | | 30 |
| | Added water | | 10 |
| | | | |
| anniefizetom hologogo ond similar casilar | Corn syrup | 15 | 2 |
| rankfurter, bologna, and similar cooked | Skeletal meat | 15 | |
| sausage with byproducts or variety meats | Must be distinctively labeled; byproducts, | | |
| and which also contain nonmeat binders | variety meats, and binders must be named i proper order in ingredient list— | n | |
| | Fat | | 30 |
| | Added water | No. of Street, | 10 |
| | Corn syrup | - | 2 |
| | Nonmeat binders, or | | 3.5 |
| | Isolated soy protein | | 2 |
| See footnotes at end of table. | toomico ooj protein | | Continued— |

Table 20—Limits on content of selected ingredients for categories of processed meat products—Continued

| roduct | Ingredients M | linimum of ^l | Maximum of ¹ |
|--|---|-------------------------|--|
| | | Per | cent |
| ried rice with meat | Meat | 10 | |
| ritter | Meat | 35 | - |
| | Breading | | 65 |
| erman style potato salad with bacon | Bacon (cooked basis) | 14 | _ |
| oulash | Meat | 25 | |
| avy | Meat or 25% meat stock | 6 | |
| avy and sauerbraten | Meat (cooked basis) | 35 | - |
| avy and swiss steak | Meat (cooked basis) | 35 | ******* |
| avy and yankee pot roast | Meat (cooked basis) | 35 | |
| ravy with beef | Beef (cooked basis) | 35 | |
| am (canned) | Total weight gain | 100044 | 8 |
| am, cooked or cooked and smoked | Cooked less than or equal to weight of fresh hadded water must be labeled | nam — | |
| | "Ham, Water Added" | | 10 |
| am a la king | Ham (cooked basis) | 20 | and the same of th |
| am and cheese spread | Ham (cooked basis) | 25 | |
| im chowder: | | _ | |
| Ready-to-eat | Ham (cooked basis) | 5 | |
| Condensed | Ham (cooked basis) | 10 | |
| ım salad | Ham (cooked basis) | 35 | |
| ım spread | Ham | 50 | - |
| mburger, hamburg, burger, ground | | | |
| eef, or chopped beef | Fat | | 30 |
| | Extenders | | 0 |
| sh | Meat (cooked basis) | 35 | - |
| ors d'oeuvre | Meat (cooked basis) | 15 | |
| | Bacon (cooked basis) | 10 | |
| mbalaya with meat | Meat (cooked basis) | 25 | |
| nish | Meat (cooked basis) | 15 | |
| eplach | Meat | 20 | - |
| sagna with meat and sauce, or | | | |
| heese lasagna with meat | Meat | 12 | *************************************** |
| sagna with meat sauce | Meat | 6 | |
| sagna with sauce, cheese, and dry sausage | Dry sausage | 8 | |
| ma beans with ham or bacon in sauce | Ham or bacon | 12 | |
| ver products, such as liver loaf, liver paste, ver pate, liver cheese, liver spread, | | | |
| verwurst, braunschweiger, and liver sausage | Liver | 30 | |
| acaroni and beef in sauce | Beef | 12 | - |
| acaroni and cheese with ham | Ham (cooked basis) | 12 | |
| acaroni and meat | Meat | 25 | |
| acaroni salad with ham or beef | Meat (cooked basis) | 12 | |
| anicotti with meat in sauce | Meat | 10 | |
| argarine or oleomargarine | Fat (must specify fat) | 80 | |
| eat and dumplings in sauce | Meat | 25 | |
| eat and vegetables | Meat | 50 | ************************************** |

See footnotes at end of table.

Continued-

Table 20—Limits on content of selected ingredients for categories of processed meat products—Continued

| Product | Ingredients | Minimum of ¹ | Maximum of ¹ |
|--|--|---|-------------------------|
| | | Per | cent |
| Meat casserole | Uncooked meat | 25 | |
| | Cooked meat | 18 | |
| Meat curry | Meat | 50 | |
| Meat loaf (baked or oven-ready) | Meat | 65 | |
| icat loar (baked of over-leady) | Cereal products | 05 | 12 |
| foot mosts: | • | 25 | 12 |
| Meat pasty | Meat | | |
| fleat pie or vegetable meat pie | Meat | 25 | |
| feat ravioli | Meat in ravioli | 10 | |
| feat ravioli in sauce | Meat in ravioli | 10 | |
| | Ravioli in product | 50 | |
| leat salad | Meat (cooked basis) | 35 | |
| leat sauce | Meat | 6 | |
| Meat soup: | | | |
| Ready-to-eat | Meat | 5 | - Carrier State |
| Condensed | Meat | 10 | |
| Meat spread | Meat | 50 | |
| Meat stew | Meat | 25 | Allegative |
| Meat taco | Meat | 15 | |
| Meat taco filling | Meat | 40 | |
| Meat turnover | Meat | 25 | |
| | Cooked tenderloin | 50 | |
| leat Wellington | · | 30 | |
| a | Pastry | | 30 |
| Meatballs | Meat | 65 | |
| | Extenders | | 12 |
| featballs in sauce | Meatballs (cooked basis) | 50 | |
| Meatball Stroganoff | Meatballs (cooked basis) | 45 | |
| Mince meat | Meat | 12 | : |
| Mousaka | Meat (labeled "Eggplant and Meat Casserole | ") 25 | |
| New England boiled dinner | Cooked corned beef | 25 | |
| Omelet with bacon | Bacon (cooked basis) | 9 | - |
| Omelet with dry sausage | Dry sausage | 12 | - |
| Omelet with ham | Ham (cooked basis) | 18 | : |
| Omelet with meat food product, such as | (| 10 | |
| creamed chipped beef or corned beef hash | Meat food product | 25 | |
| Omelet, western | Cooked ham | 18 | |
| | COMPO HAM | 10 | |
| ate de foie | Liver | 30 | |
| epper steak (Chinese) | Beef (cooked basis) | 30 | - |
| | | | |
| reppers and Italian sausage in sauce | Sausage (cooked basis) | 20 | |
| izza with meat | Meat | 15 | |
| izza with sausage | Sausage (cooked basis) | 12 | - |
| _ | Dry sausage (pepperoni) | 10 | - |
| ork sausage | Fat | | 50 |
| | Water | | 3 |
| | Byproducts or extenders | | 0 |
| ork with barbecue sauce | Pork (cooked basis) | 50 | |
| ork with dressing | Pork (cooked basis) | 50 | |
| ork with dressing and gravy | Pork (cooked basis) | 30 | |
| Prosciutto | Dry-cured ham coated with spices | *************************************** | |
| uiche Lorraine | Bacon or ham | 8 | : |
| | | | |

Table 20-Limits on content of selected ingredients for categories of processed meat products-Continued

| Product | Ingredients | Minimum of ¹ | Maximum of ¹ | |
|--|-------------------------------|-------------------------|-------------------------|--|
| | | Percent | | |
| Salisbury steak | Meat | 65 | | |
| | Extenders | | 12 | |
| Sandwich, meat | Meat | 35 | | |
| | Bread | | 50 | |
| auerbraten | Beef (cooked basis) | 50 | - | |
| auerkraut balls with meat | Meat | 30 | - | |
| auerkraut with wieners and juice | Wieners | 20 | | |
| ausage with sauerkraut in sauce | Sausage | 40 | | |
| calloped potatoes and ham or sausage | Ham or sausage (cooked basis) | 20 | | |
| callopini | Meat (cooked basis) | 35 | | |
| crambled eggs with ham in pancake | Ham (cooked basis) | 9 | | |
| crapple | Meat/meat byproducts | 40 | | |
| hepherd's pie | Meat | 25 | | |
| | Mashed potatoes | | 50 | |
| loppy joe | Meat (cooked basis) | 35 | | |
| nack | Meat (cooked basis) | 15 | white war | |
| nack. | Bacon (cooked basis) | 10 | - | |
| paghetti sauce with meat | Meat | 6 | - | |
| paghetti with meat or meatballs in sauce | Meat | 12 | | |
| panish rice with meat | Meat (cooked basis) | 20 | | |
| tuffed cabbage with meat in sauce | Meat (cooked basis) | 12 | | |
| tuffed pepper with meat in sauce | Meat | 12 | | |
| ukiyaki | Meat | 30 | | |
| weet and sour meat | Meat | 25 | | |
| weet and sour meat | Fruit | 16 | | |
| wiss steak with gravy | Meat (cooked basis) | 50 | | |
| wiss steak with gravy | Wicat (Cooked basis) | 50 | | |
| amale | Meat | 25 | | |
| amale with sauce or gravy | Meat | 20 | | |
| amale pie | Meat | 20 | | |
| aquito | Meat | 15 | | |
| ongue spread | Tongue | 50 | | |
| ortellini with meat | Meat | 10 | | |
| ortellini with meat in sauce | Cooked meat tortellini | 50 | | |
| eal and peppers in sauce | Meat (cooked basis) | 30 | - | |
| ear and peppers in sauce eal bird | Meat (cooked basis) | 60 | | |
| Cai ond | Stuffing | | 40 | |
| eal cordon bleu | Veal | 60 | 40 | |
| car cordon bleu | Ham | 5 | | |
| eal fricassee | Ham Meat | 40 | | |
| | Breaded veal in sauce | 40 | | |
| eal parmigiana | | 35 | | |
| eal scallopini eal steak | Veal (cooked basis) Beef | 33 | 20 | |
| cai sicak | Fat | - | 20 30 | |
| egetable and meat casserole | rat Meat | 25 | 30 | |
| | Meat Meat | 25 25 | | |
| regetable and meat pie | | | | |
| Von ton soup | Meat | 5 | | |

¹Other conditions and restrictions may apply. For specific information, contact Standards and Labeling Division, Food Safety and Inspection Service, U.S. Dept. Agr.

Source: U.S. Dept. Agr., Food Safety and Inspection Service, Meat and Poultry Products: A Consumer Guide to Content and Labeling Requirements. Home and Garden Bul. No. 236, July 1981.

²For actual products the applicable species name, for example, "beef" or "pork," is substituted for the word "meat."

Table 21—Factors relating to shell eggs

| Jumbo Extra large Large Medium Small Peewee Average weight sold at retail | Pounds 56.0 50.5 45.0 39.5 34.0 28.0 47.0 | 30 dozen) Kilograms 25.40 22.90 20.41 17.91 15.42 12.70 21.32 nid or frozen, r | Ounces 30 27 24 21 18 15 | Grams 850.48 765.44 680.39 595.34 510.29 425.24 708.74 | Pounds 1.88 1.69 1.50 1.31 1.12 .94 | 0.85 .77 .68 .59 .51 | | | |
|---|--|---|---|--|---|----------------------------------|--|--|--|
| Extra large Large Medium Small Peewee | 56.0 50.5 45.0 39.5 34.0 28.0 47.0 | 25.40 22.90 20.41 17.91 15.42 12.70 21.32 | 30 27 24 21 18 15 | 850.48 765.44 680.39 595.34 510.29 425.24 | 1.88 1.69 1.50 1.31 1.12 .94 | 0.85 .77 .68 .59 | | | |
| Extra large Large Medium Small Peewee | 50.5 45.0 39.5 34.0 28.0 47.0 | 22.90 20.41 17.91 15.42 12.70 21.32 | 27 24 21 18 15 | 765.44 680.39 595.34 510.29 425.24 | 1.69 1.50 1.31 1.12 .94 | .77 .68 .59 .51 | | | |
| Large Medium Small Peewee | 45.0 39.5 34.0 28.0 47.0 | 20.41 17.91 15.42 12.70 21.32 | 24 21 18 15 | 680.39 595.34 510.29 425.24 | 1.50 1.31 1.12 .94 | .68 .59 .51 | | | |
| Large Medium Small Peewee | 39.5 34.0 28.0 47.0 | 17.91 15.42 12.70 21.32 | 21 18 15 | 595.34 510.29 425.24 | 1.31 1.12 .94 | .59 .51 | | | |
| Medium Small Peewee | 39.5 34.0 28.0 47.0 | 17.91 15.42 12.70 21.32 | 18 15 | 510.29 425.24 | 1.12 .94 | .51 | | | |
| Small Peewee | 34.0 28.0 47.0 Liqu | 15.42 12.70 21.32 | 18 15 | 510.29 425.24 | .94 | | | | |
| Peewee | 28.0 47.0 Liqu | 12.70 21.32 | 15 | 425.24 | .94 | | | | |
| Average weight sold at retail | Liqu | | 25 | 708.74 | 1 57 | | | | |
| Average weight sold at retail | • | nid or frozen, r | | | 1.57 | .71 | | | |
| | *** | | Liquid or frozen, minimum amount approximating 1 dozen eggs | | | | | | |
| | Whole | | Yolk | | Albumen | | | | |
| | Pounds | Kilograms | Pounds | Kilograms | Pounds | Kilograms | | | |
| Jumbo | 1.64 | 0.74 | 0.71 | 0.32 | 0.93 | 0.42 | | | |
| Extra large | 1.48 | .67 | .64 | .29 | .84 | .38 | | | |
| Large | 1.32 | .60 | .57 | .26 | .75 | .34 | | | |
| Medium | 1.16 | .53 | .50 | .23 | .66 | .30 | | | |
| Small | 1.00 | .45 | .43 | .20 | .57 | .26 | | | |
| Peewee | .80 | .36 | .35 | .16 | .47 | .21 | | | |
| Average weight sold at retail | 1.38 | .63 | .60 | .27 | .78 | .35 | | | |
| | Dried, minimum amount approximating 1 dozen eggs | | | | | | | | |
| | V | Vhole | | Yolk | Albumen | | | | |
| | Pounds | Kilograms | Pounds | Kilograms | Pounds | Kilograms | | | |
| Jumbo | 0.42 | 0.19 | 0.32 | 0.15 | 0.12 | 0.05 | | | |
| Extra large | .38 | .17 | .29 | .13 | .11 | .05 | | | |
| Large | .34 | .15 | .26 | .12 | .10 | .05 | | | |
| Medium | .30 | .14 | .23 | .10 | .09 | .04 | | | |
| Small | .26 | .12 | .20 | .09 | .08 | .04 | | | |
| Peewee | .21 | .10 | .16 | .07 | .06 | .03 | | | |
| Average weight sold at retail | .35 | .16 | .27 | .12 | .10 | .05 | | | |

Source: U.S. Dept. Agr., Economics, Statistics, and Cooperatives Service, Conversion Factors and Weights and Measures for Agricultural Commodities and Their Products, SB-616, Mar. 1979, p. 30 (reviewed but unchanged except for metrication).

Table 22—Estimated conversion factors for yields of liquid eggs and dried eggs and the moisture content of dried eggs, by type of product, 1991

| Egg products | Liquid yield from 30 | Yield from shell | | | s for 1 pound gg products | Yield o egg prod | | Approximate moisture con- |
|--------------------------|-------------------------|---------------------|-------------------------|---------------|------------------------------|------------------------|--|---------------------------|
| dozen shell eggs 1 | Liquid egg | Dried egg | Liquid egg ² | Shell eggs | 100 pounds of liquid | 30 dozen shell eggs | tent of dried egg product ³ | |
| | | Ki | lograms | | Dozen | Kilog | rams | Percent |
| Metric: | | | | | | | | |
| Whole egg Albumen | | 0.599 | 0.150 | 1.7 | 3.03 | 11.36 | 4.49 | 3.5-4.0 |
| Flake | 10.6 | .352 | .045 | 3.4 | 10.00 | 5.84 | 1.36 | 12.0-14.0 |
| Spray | 10.6 | .352 | .043 | 3.7 | 10.64 | 5.29 | 1.28 | 6.0-8.0 |
| Yolk | 7.4 | .246 | .106 | 1.0 | 4.29 | 20.19 | 3.17 | 3.5-4.5 |
| | | | Pounds | | Dozen | Pou | nds | Percent |
| U.S. customa weights: | ry | | | | | | | |
| Whole egg Albumen— | | 1.320 | 0.330 | 3.8 | 3.03 | 25.05 | 9.90 | 3.5-4.0 |
| Flake | 23.3 | .777 | .100 | 7.6 | 10.00 | 12.88 | 3.00 | 12.0-14.0 |
| Spray | 23.3 | .777 | .094 | 8.2 | 10.64 | 11.66 | 2.82 | 6.0-8.0 |
| Yolk | 16.3 | .543 | .233 | 2.2 | 4.29 | 44.51 | 6.99 | 3.5-4.5 |

Note: Data represent recent commercial experience as well as the effect of current sanitary regulations on yields of egg products.

¹Based on whole eggs, 24.2% total egg solids; egg whites, 11.5% total egg solids; and yolks, 43% minimum total egg solids. Large shell eggs 45 pounds per 30-dozen case.

²Concentration factors used by the U.S. Department of Agriculture for estimating the conversion of dried to liquid to check yields and volume reports.

³Values recommended by U.S. Dept. Agr., Agricultural Marketing Service. "Approximate Moisture Content of Dried Egg Product," Poultry Division. Figures are based on moisture for whole eggs at 3.5%, flake albumen at 11.5% solids, and 12% moisture, spray dried albumen at 11.5% solids and 6% moisture, and yolk at 43% solids and 3.5% moisture.

Table 23—Limits on content of selected ingredients for categories of processed poultry¹

| Product | Ingredients | Minimum of | Maximum of | |
|---|---|------------|---|--|
| | | Percent | | |
| Baby food: | | | | |
| High poultry dinner | Poultry meat, giblets, skin, and fats | 18.75 | | |
| Poultry with broth | Poultry meat, giblets, skin, and fats | 43 | **** | |
| Beans and rice with poultry | Poultry meat | 6 | | |
| Breaded poultry | Breading | | 30 | |
| Canned boned poultry: | | | | |
| Boned (kind), solid pack | Poultry meat, skin, and fats | 95 | - | |
| Boned (kind) | Poultry meat, skin, and fats | 90 | | |
| Boned (kind), with broth | Poultry meat, skin, and fats | 80 | - | |
| Boned (kind), with specified | • • | | | |
| percentage of broth | Poultry meat, skin, and fats | 50 | *************************************** | |
| Cannelloni with poultry | Poultry meat | 7 | | |
| Chicken cordon bleu | Boneless chicken breast | 60 | - | |
| | Ham and swiss, gruyere, or mozzarella chees | se 5 | - | |
| | Breading | - | 30 | |
| Creamed poultry | Poultry meat | 20 | _ | |
| Egg roll with poultry | Poultry meat | 2 | | |
| Eggplant parmigiana with poultry | Poultry meat | 8 | | |
| Entree, poultry or poultry food | | | | |
| products and one vegetable | Poultry meat or poultry food product | 37.5 | ******** | |
| Gravy with poultry | Poultry meat | 35 | - | |
| Noodles or dumplings with poultry | Poultry meat | 6 | | |
| Poultry a la kiev | Breastmeat | - | *************************************** | |
| Poultry a la king | Poultry meat | 20 | | |
| oultry almondine | Poultry meat | 50 | | |
| Poultry brunswick stew | Poultry meat | 12 | | |
| Poultry burgers | Poultry meat | 100 | | |
| Poultry burgundy | Poultry meat | 50 | | |
| Poultry burrito | Poultry meat | 10 | | |
| Poultry cacciatore | Poultry meat or 40% with bone | 20 | | |
| Poultry casserole | Poultry meat | 18 | - | |
| Poultry chili | Poultry meat | 28 | - | |
| Poultry chili with beans | Poultry meat | 17 | | |
| Poultry chop suey | Poultry meat | 4 | - | |
| Poultry chow mein without noodles | Poultry meat | 4 | - | |
| oultry creole with rice | Poultry meat | 35 | | |
| levilent are queste | Cooked rice | | 50 | |
| oultry croquette | Poultry meat | 25 | | |
| oultry croquette with macaroni and cheese | Poultry meat or croquettes | 29 | | |
| oultry dinner, frozen | Poultry meat | 18 | | |
| Poultry empanadillo | Poultry meat | 25 | - | |
| oultry fricassee | Poultry wings (cooked basis with bone) | 20 | | |
| oultry fricassee of wings | Poultry meet | 40 30 | | |
| oultry hash | Poultry meet | 30 | | |
| oultry lasagna | Poultry meat | 8 | | |
| oultry livers with rice and gravy | Livers in gravy or 17.5% total product | 30 | | |
| oultry meat loaf | Raw poultry | 65 50 | | |
| | Poultry meat | 50 | 10 | |
| | Extenders Meat | 35 | 12 | |
| oulter noollo | | | | |
| oultry paella | Cooked rice | 35 | | |

Continued-

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See footnote at end of table.

Table 23-Limits on content of selected ingredients for categories of processed poultry1-Continued

| Product | Ingredients | Minimum of | Maximum of |
|-------------------------------------|-------------------------------|------------|------------|
| | | Per | cent |
| Poultry pie | Poultry meat | 14 | |
| Poultry ravioli | Poultry meat | 2 | |
| Poultry roll | Binding agents | | 3 |
| Poultry roll with broth | Poultry broth | 2 | |
| Poultry roll with gelatin | Gelatin | 3 | |
| Poultry roll with natural juices | Cooked-out juices | 2 | **** |
| Poultry salad | Poultry meat | 25 | |
| Poultry scallopini | Poultry meat | 35 | - |
| Poultry soup: | - | | |
| Ready-to-eat | Poultry meat | 2 | |
| Condensed | Poultry meat | 4 | 600pman |
| Poultry stew | Poultry meat | 12 | |
| Poultry stroganoff | Poultry meat | 30 | - |
| Poultry tamale | Poultry meat | 6 | |
| Poultry tetrazzini | Poultry meat | 15 | |
| Poultry turnover | Poultry meat | 14 | - |
| Poultry Wellington | Boneless poultry breast | 50 | |
| • | Pastry | | 30 |
| Poultry with gravy | Poultry meat | 35 | |
| Poultry with gravy and dressing | Poultry meat | 25 | |
| Poultry with noodles au gratin | Poultry meat | 18 | ******* |
| Poultry with noodles or dumplings | Poultry meat or 30% with bone | 15 | |
| Poultry with rice | Poultry meat | 15 | |
| Poultry with vegetables | Poultry meat | 15 | |
| Sauce with poultry or poultry sauce | Poultry meat | 6 | |
| Stuffed cabbage with poultry | Poultry meat | 8 | |
| Stuffed peppers with poultry | Poultry meat | 8 | - |
| Turkey ham | Cured turkey thigh meat only | | |

¹Other conditions and restrictions may apply. For specific information contact Standards and Labeling Division, Food Safety and Inspection Service, U.S. Dept. Agr.

Source: U.S. Dept. Agr., Food Safety and Inspection Service, Meat and Poultry Products: A Consumer Guide to Content and Labeling Requirements, Home and Garden Bul. No. 236, July 1981.

Table 24—Fish and shellfish: Factors relating to specified weights¹

| | F | actors for co | onverting to | | Factors for converting to— | | | |
|---|------------------------------|------------------------------|--------------------------------|-------------------------------|------------------------------|------------------------------|--------------------------------|-------------------------------|
| Product | Round weight ² | Reported weight ³ | Dressed weight ⁴ | Edible weight ⁵ | Round weight ² | Reported weight ³ | Dressed weight ⁴ | Edible weight ⁵ |
| | | Pou | nds | | | Kilog | rams | |
| Fish, fresh and frozen: | | | | | | | | |
| Not packaged, domestically produced- | | | | | | | | |
| Round weight | 1.00 | 1.00 | 0.70 | 0.45 | 0.45 | 0.45 | 0.32 | 0.20 |
| Dressed weight | 1.43 | NA | 1.00 | .64 | .65 | .00 | .45 | .29 |
| Edible weight | 2.22 | NA | 1.56 | 1.00 | 1.01 | .00 | .71 | .45 |
| Packaged, domestically produced— | | | | | | | | |
| Round weight | 1.00 | .34 | NA | .34 | .45 | .15 | NA | .15 |
| Packaged weight | 2.96 | 1.00 | NA | 1.00 | 1.34 | .45 | NA | .45 |
| Imports, reported weight | 1.95 | 1.00 | 1.36 | .88 | .88 | .45 | .62 | .40 |
| Shellfish, fresh and frozen: | | | | | | | | |
| Not packaged, including shrimp, | | | | | | | | |
| oysters, crab, lobster, and others- | | | | | | | | |
| Reported weight | NA | 1.00 | NA | .45 | NA | .45 | NA | .20 |
| Edible weight | NA | 2.22 | NA | 1.00 | NA | 1.01 | NA | .45 |
| Packaged, including fresh shucked | | | | | | | | |
| oysters, clams, shrimp, and others | NA | 1.00 | NA | 1.00 | NA | .45 | NA | .45 |
| Fish, cured, all types, including smoked, | | | | | | | | |
| pickled, salted, and dried: | | | | | | | | |
| Reported weight (cured weight) | 1.50 | 1.00 | NA | .75 | .68 | .45 | NA | .34 |
| Edible weight | 2.00 | 1.33 | NA | 1.00 | .91 | .60 | NA | .45 |

NA = Not available.

Table 25-Shellfish: Net weight per gallon and liter

| Product | | Net weight | |
|----------|----------------------|-------------------------|------------------------|
| | Pounds per gallon | Kilograms per gallon | Kilograms per liter |
| Clams | 8.75 | 3.97 | 1.048 |
| Oysters | 8.75 | 3.97 | 1.048 |
| Scallops | 8.75 | 3.97 | 1.048 |

¹Factors are for specified groups and are not applicable to individual species.

²Weight of the fish as removed from the water.

³Production as reported to the National Marine Fisheries Service; imports as reported by the Bureau of the Census, U.S. Dept. of Commerce.

⁴Weight of fin fish after removal of entrails, head, tail, and fins.

⁵Weight of the edible portion of the fish or shellfish.

Table 26—Canned fish and shellfish: Net weight per standard case

Product Net weight Pounds per case Kilograms per case Alewife 45.00 20.41 **Anchovies** 31.25 14.18 Mackerel 45.00 20.41 Salmon 48.00 21.77 Sardines: Maine 23.40 10.61 Pacific 45.00 20.41 Shad 45.00 20.41 Tuna and tuna-like fish: Solid 21.00 9.53 Chunks 19.50 8.85 Flakes and grated 18.00 8.16 Crab meat, natural 19.50 8.85 Shrimp, wet pack¹ 6.75 3.06 Clam products: Whole and minced¹ 15.00 6.80 Juices, chowders, broth, and other 30.00 13.61 Oysters, natural¹ 7.00 3.18 All other 48.00 21.77

¹Cut out or drained weights of canned contents. All others are net canned contents.

Table 27—Factors relating to corn content of specified products¹

| _ | | | Factors for c | onverting- | | |
|---|-------------------|----------------------|----------------------------------|----------------------------------|---------------------------|---------------------------------|
| *** | One bushel | of corn to- | Pounds of | Kilograms of | Weigh | nt of— |
| Product | Pounds of product | Kilograms of product | product to bushels of corn | product to bushels of corn | Corn to weight of product | Product to weight of corn |
| Corn, shelled ² | 56.00 | 25.40 | 0.018 | 0.008 | 1.000 | 1.00 |
| Corn meal, degermed | 31.60 | 14.33 | .032 | .014 | .564 | 1.77 |
| Corn meal, nondegermed, | | | | | | |
| regular | 50.00 | 22.68 | .020 | .009 | .893 | 1.12 |
| Corn flour | 33.00 | 14.97 | .030 | .014 | .589 | 1.70 |
| Corn grits or hominy grits | 29.00 | 13.15 | .035 | .016 | .518 | 1.93 |
| Hominy: | | | | | | |
| Canned | 145.00 | 65.77 | .007 | .003 | 2.589 | .39 |
| Dry | 27.30 | 12.38 | .037 | .017 | .488 | 2.05 |
| Cornstarch, 10% moisture ³ Cornstarch, pearl, 12% moisture | 34.40 | 15.60 | .029 | .013 | .614 | 1.63 |
| or laundry starch ³ | 35.20 | 15.97 | .028 | .013 | .629 | 1.59 |
| Corn sugar: | | | | | | |
| Dextrose, hydrate, 8% moistur Dextrose, anhydrous, | | 13.61 | .033 | .015 | .536 | 1.87 |
| moisture free ⁴ | 27.50 | 12.47 | .036 | .017 | .491 | 2.04 |
| Corn syrup, 43° Baume, ⁵ | | | | | | |
| 19.73% moisture, 42% dextrose | | | | | | |
| equivalent ³ | 37.60 | 17.06 | .027 | .012 | .672 | 1.49 |
| High fructose corn syrup | 39.2 | 17.79 | .027 | .012 | .700 | 1.43 |
| Corn flakes or corn cereal | 21.50 | 9.75 | .047 | .021 | .384 | 2.60 |
| Corn-soya cereal ⁶ | 33.60 | 15.24 | .030 | .013 | .600 | 1.66 |
| Precooked infant-type | | | | | | |
| mixed cereal | 500.00 | 226.80 | .002 | .001 | 8.929 | .11 |
| Premixed cereal | 101.80 | 46.18 | .010 | .004 | 1.818 | .55 |
| Pancake mix | 330.00 | 149.69 | .003 | .001 | 5.882 | .17 |
| Pudding powder, 33% cornstarch | 103.80 | 47.08 | .010 | .004 | 1.854 | .54 |
| Chocolate pudding powder, | | | | | | |
| 18% cornstarch | 186.60 | 84.64 | .005 | .002 | 3.333 | .30 |
| Corn snacks | 67.50 | 30.62 | .015 | .007 | .830 | .12 |
| Corn oil: | | | | | | |
| Refined | 1.60 | .73 | .625 | .284 | .029 | 35.00 |
| Crude | 1.80 | .82 | .556 | .252 | .032 | 31.10 |
| Corn feeds, gluten feed, gluten | | | | | | |
| meal, and corn oil meal or cake ⁷ | 14.90 | 6.76 | .067 | .030 | .266 | 3.76 |
| Hominy feed | 20.00 | 9.07 | .050 | .023 | .357 | 2.80 |

¹All factors are based on 56 pounds of shelled corn per bushel. Product spectrum varies with corn milled and product mix sought. Factors presented are based on maximum yield of product.

²Five bushels of shelled corn = 1 barrel; 10 bushels of ear corn = 1 barrel; 70 pounds of ear corn = 1 bushel of shelled corn.

³From 17% moisture corn.

⁴Based on continued reprocessing of uncrystallized dextrose liquors.

⁵A hydrometer scale that separately covers liquids with specific gravities greater and less than 1.

⁶Corn-soya cereal contains approximately 34% soya flour.

⁷Conversion factors cover all corn feeds combined. Data are not available to show separate components of corn feeds, though gluten feed is generally about 55-60% of total corn feeds, gluten meal around 40%, and corn oil meal only about 2%.

Table 28—Factors relating to whole grain and processed wheat

| | - | Factors for | converting— |
|---------------------------------|----------------|---------------------------------------|---|
| Commodity | Unit | Units of wheat to pounds of commodity | Units of commodity to bushels of wheat |
| Wheat, whole grain | Pound | 1.0 | 0.01667 |
| | Bushel | 60.0 | 1.0 |
| | Short ton | 2,000.0 | 33.33 |
| | Metric ton | 2 204.622 | 36.744 |
| | Long ton | 2,240.0 | 37.33 |
| White flour ¹ | Pound | .740 | .0225 |
| | 100-pound sack | 74.00 | 2.252 |
| | Bushel | 44.40 | ***** |
| | Short ton | 1,480.00 | 45.04 |
| | Metric ton | 1 631.42 | 49.64 |
| | Long ton | 1,657.60 | 50.44 |
| Semolina or farina ² | Pound | .58 | .0287 |
| Semolina or farina ² | 100-pound sack | 58.00 | 2.874 |
| | Bushel | 34.80 | |
| | Short ton | 1,160.0 | 57.47 |
| | Metric ton | 1 278.7 | 63.35 |
| | Long ton | 1,299.2 | 64.37 |
| Whole wheat flour | Pound | .980 | .01701 |
| or cracked wheat | 100-pound sack | 98.0 | 1.700 |
| | Bushel | 58.8 | |
| | Short ton | 1,960.0 | 34.01 |
| | Metric ton | 2 160.5 | 37.49 |
| | Long ton | 2,195.2 | 38.09 |
| Wheat meal or | Pound | .990 | .01684 |
| whole wheat meal | 100-pound sack | 99.0 | 1.684 |
| | Bushel | 59.4 | - |
| | Short ton | 1,980.0 | 33.67 |
| | Metric ton | 2 182.6 | 37.12 |
| | Long ton | 2,217.6 | 37.71 |

Not applicable.
 174% extraction based on wheat purchased with a final flour moisture of 14%.
 2At a 73% extraction rate, semolina and farina comprise approximately 58% and flour 15%.

Table 29-Factors relating to barley and malt content of specified products

| | | Fac | tors for convertin | g | |
|---------------------|-----------------------------------|------------------------------------|--|---|--------------------------------------|
| | Bushels of | Pounds of | | Metric tons of- | , |
| Product | barley to pounds of product | product to bushels of barley | Barley to metric tons of product | Product to metric tons tons of barley | Product to metric tons of malt |
| Barley, unprocessed | 48 | 0.02083 | 1.000 | 1.000 | 1.412 |
| Barley flour | 26 | .03846 | .542 | 1.845 | Difference land |
| Pearl barley | 30 | .03333 | .625 | 1.600 | سنستنيه |
| Malt | 34 | .02941 | .708 | 1.412 | 1.000 |
| Malt syrups and | | | | | |
| malt extract | 26 | .2846 | .542 | 1.845 | .764 |

^{— =} Not applicable.

Table 30—Factors relating to oat content of specified products

| | Factors for converting— | | | | | | | |
|---------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--|--|--|--|
| | | | Metric t | ons of— | | | | |
| Product | Bushels of oats to pounds of product | Pounds of product to bushels of oats | Oats to metric tons of product | Product to metric tons of oats | | | | |
| 32-pound bushel:1 | | | | | | | | |
| Oats, unprocessed | 32.0 | 0.03125 | 1.000 | 1.000 | | | | |
| Oat flour | 20.3 | .04926 | .634 | 1.577 | | | | |
| Oatmeal— | | | | | | | | |
| Quick cooking | 18.5 | .05405 | .579 | 1.730 | | | | |
| Regular | 18.5 | .05405 | .579 | 1.730 | | | | |
| Ready-to-eat cereal | 20.5 | .04878 | .641 | 1.560 | | | | |
| 88-pound bushel:1 | | | | | | | | |
| Oats, unprocessed | 38.0 | .02632 | 1.000 | 1.000 | | | | |
| Oat flour | 24.1 | .04149 | .634 | 1.577 | | | | |
| Oatmeal— | | | | | | | | |
| Quick cooking | 22.0 | .04545 | .579 | 1.730 | | | | |
| Regular | 22.0 | .04545 | .579 | 1.730 | | | | |
| Ready-to-eat cereal | 24.3 | .04115 | .641 | 1.560 | | | | |

¹A 32-pound bushel is the standard test weight for oats and has been unchanged for many years. However, premiums and discounts are routinely paid above and below 38 pounds per bushel.

Table 31—Soybean products: Factors relating to yields of selected items

| | | F | actors for obtaining | <u> </u> | |
|-----------------------------------|--|---|---|--|---|
| Product | Units of product from unit of soybeans | Equivalent units of soybeans from unit of product | Pounds of product from bushel of soybeans | Equivalent bushels of soybeans from pound of product | Pounds of product from short ton of soybeans |
| Soybean oil, crude ¹ | 0.185 | 5.41 | 11.1 | 0.090 | 369 |
| Soybean oil, refined ¹ | .178 | 5.61 | 10.7 | .094 | 357 |
| Soybean cake or meal, | | | | | |
| 44-percent protein ¹ | .793 | 1.26 | 47.6 | .021 | 1,587 |
| Soybean hulls ² | .070 | 14.29 | 4.2 | .238 | 140 |
| Flour, flakes, or grits: | | | | | |
| Full fat | .908 | 1.10 | 54.5 | .018 | 1,817 |
| Low fat | .733 | 1.36 | 44.0 | .023 | 1,467 |

¹1985-89 crop-year average.

Table 32—U.S. oilseeds: Average yield per harvested acre¹

| Oil-bearing material | | Average yield | l | Crude oil produced | Cake and meal produced | |
|--------------------------|----------------------|---------------|-------|--------------------|---------------------------|--|
| | Bushels ² | Tons | | Pounds | | |
| Cottonseed | - | 0.502 | 1,004 | 166 | 472 | |
| Flaxseed | 12.7 | - | 711 | 249 | 455 | |
| Peanuts (farmers' stock) | Numerous . | 1.213 | 2,426 | 752 | 1,030 | |
| Safflowers | | .738 | 1,476 | 561 | 856 | |
| Soybeans | 33.2 | - | 1,992 | 369 | 1,584 | |
| Sunflowers (oil type) | ******* | .595 | 1,190 | 482 | 595 | |

¹Yields of oilseeds are 5-year averages, 1985-89. Yields of oil and cake or meal are based on the 5-year average yields of oilseeds converted to oil and cake or meal equivalents on the basis of 5-year, 1985-89, crop year average percentage outturns, as follows:

²Removed when 50-percent protein meal produced.

Oil outturn: Cottonseed, 16.5%; flaxseed (linseed oil), 35.8%; peanuts, 31.0%; safflowers, 38.0%; soybeans, 18.5%; and sunflowers, 40.5%.

Cake or meal outturns: Cottonseed, 46.0%; linseed, 65.0%; peanuts, 42.5%; safflowers, 58.0%; soybeans, 79.5%; and sunflowers, 50.0%.

²Bushel weight: Flaxseed, 56 pounds; soybeans, 60 pounds.

Table 33—Flaxseed products: Factors relating to yields of selected items

| | | F | actors for obtaining | Y | |
|--|--|--|---|---|---|
| Product | Units of product from unit of flaxseed | Equivalent units of flaxseed per unit of product | Pounds of product from bushel of flaxseed | Equivalent bushels of flaxseed per pound of product | Pounds of product from short ton of flaxseed |
| Linseed oil, crude ¹ | 0.357 | 2.80 | 20.0 | 0.0500 | 714 |
| Linseed oil, refined ² Linseed cake or meal ¹ | .293 .654 | 3.41 1.53 | 16.4 36.6 | .0610 .0273 | 586 1,307 |

¹1985-89 crop-year average. ²Linseed oil is typically refined from raw oil, rather than crude. The loss in refining is about 8 percent from raw to refined and bleached.

Table 34—Vegetable oils and products: Conversion factors relating to crude and refined oils and to pounds and gallons

| | to the second se | Factors for converting— | | | | | | |
|--------------------------|--|----------------------------|---------------------|------------------------|--|--|--|--|
| | | Equivalent | | | | | | |
| Oil and product | Refined oil from crude oil | crude oil from refined oil | Pounds from gallons | Gallons from pounds | | | | |
| Oil: | | | | | | | | |
| Castor | 1 | 1 | 8.0 | 0.125 | | | | |
| Coconut | 0.97 | 1.03 | 7.5 | .133 | | | | |
| Corn | .90 | 1.11 | 7.7 | .130 | | | | |
| Cottonseed | .90 | 1.11 | 7.7 | .130 | | | | |
| Fish (menhaden) | 1 | 1 | 7.7 | .130 | | | | |
| Grain screenings | 1 | 1 | 7.7 | .130 | | | | |
| Linseed | .92 | 1.07 | 7.7 | .130 | | | | |
| Murumuru | 1 | 1 | 7.5 | .133 | | | | |
| Mustardseed | 1 | 1 | 7.7 | .130 | | | | |
| Oiticica | 1 | 1 | 7.8 | .128 | | | | |
| Olive | 1 | 1 | 7.6 | .132 | | | | |
| Ouricuri | 1 | 1 | 7.5 | .133 | | | | |
| Palm | .97 | 1.03 | 7.7 | .130 | | | | |
| Palm kernel | .97 | 1.03 | 7.5 | .133 | | | | |
| Peanut | .92 | 1.09 | 7.7 | .130 | | | | |
| Perilla | 1 | 1 | 7.7 | .130 | | | | |
| Rapeseed | $.96^{2}$ | 1 | 7.7 | .130 | | | | |
| Safflower | 1 | 1 | 7.7 | .130 | | | | |
| Sesame seed | 1 | 1 | 7.7 | .130 | | | | |
| Soybean | .92 | 1.09 | 7.7 | .130 | | | | |
| Sunflower seed | .92 | 1.09 | 7.7 | .130 | | | | |
| Tucum | 1 | 1 | 7.5 | .133 | | | | |
| Tung | 1 | 1 | 7.8 | .128 | | | | |
| Product: | | | | | | | | |
| Cooking and salad oils | 1 | 1 | 7.4 | .135 | | | | |
| French dressing | 1 | 1 | 8.7 | .115 | | | | |
| Mayonnaise | 1 | 1 | 8.0 | .125 | | | | |
| Oil and vinegar dressing | | 1 | 8.4 | .119 | | | | |
| Salad dressing | 1 | 1 | 8.7 | .115 | | | | |
| Sandwich spread | 1 | 1 | 8.7 | .115 | | | | |

¹Not customarily reported as refined oil. ²From "super degummed" to refined, bleached, and deodorized.

Table 35—Fat content and major fatty acid composition of selected foods

| | | | Fatty acids ¹ | | | | | |
|-------------------------------------|-----------|------------------------|--------------------------|-----------------|--|--|--|--|
| Food | Total fat | Saturated ² | Monounsaturated | Polyunsaturated | | | | |
| | | Pei | rcent | | | | | |
| Salad and cooking oils: | | | | | | | | |
| Safflower | 100 | 9 | 12 | 75 | | | | |
| Sunflower, oil type, northern | 100 | 10 | 20 | 66 | | | | |
| Corn | 100 | 13 | 24 | 59 | | | | |
| Cottonseed | 100 | 26 | 18 | 52 | | | | |
| Soybean ³ | 100 | 14 | 23 | 58 | | | | |
| Sesame | 100 | 14 | 40 | 42 | | | | |
| Soybean, specially processed | 100 | 15 | 43 | 38 | | | | |
| Peanut | 100 | 17 | 46 | 32 | | | | |
| Palm | 100 | 49 | 37 | 9 | | | | |
| Olive | 100 | 14 | 74 | 8 | | | | |
| Coconut | 100 | 87 | 6 | 2 | | | | |
| Vegetable fats-shortening | 100 | 25 | 45 | 26 | | | | |
| Table spreads: | | | | | | | | |
| Margarine, first ingredient on labe | 1_4 | | | | | | | |
| Safflower oil (liquid), tub | 80 | 9 | 23 | 45 | | | | |
| Corn oil (liquid), tub | 80 | 14 | 32 | 31 | | | | |
| Soybean oil (liquid), tub | 80 | 14 | 37 | 27 | | | | |
| Corn oil (liquid), stick | 80 | 13 | 46 | 18 | | | | |
| Soybean oil (liquid), stick | 80 | 17 | 39 | 21 | | | | |
| Cottonseed or soybean oil | | | | | | | | |
| partially hydrogenated, tub | 80 | 14 | 38 | 25 | | | | |
| Butter | 81 | 51 | 23 | 3 | | | | |
| Animal fats: | | | | _ | | | | |
| Poultry | 100 | 30 | 45 | 21 | | | | |
| Lard (pork) | 100 | 39 | 45 | 11 | | | | |
| Beef, lamb | 100 | 48 | 41 | 5 | | | | |
| Fish, raw: | | | | • | | | | |
| Salmon, pink | 3 | 1 | 1 | 1 | | | | |
| Tuna, bluefin | 5 | 1 | 1 | 2 | | | | |
| Mackerel, Pacific and jack | 8 | 2 | 2 | 2 | | | | |
| Herring, Atlantic | 9 | 2 | 4 | 2 | | | | |
| Nuts: | - | _ | - | _ | | | | |
| Walnuts, English | 62 | 6 | 14 | 39 | | | | |
| Walnuts, black | 57 | 4 | 13 | 38 | | | | |
| Brazil | 66 | 16 | 23 | 24 | | | | |
| Peanuts, peanut butter | 50 | 7 | 24 | 15 | | | | |
| Pecans | 68 | 5 | 42 | 17 | | | | |
| Egg yolk | 31 | 10 | 12 | 4 | | | | |
| Avocado, California | 17 | 3 | 11 | 2 | | | | |

¹These percentages do not add to 100% because other fat-like substances are included in the total composition.

Source: U.S. Dept. Agr., Human Nutrition Information Service, Agricultural Handbook Nos. 8-1, Dairy and Egg Products, 1976; 8-9 Fruits and Fruit Juices, 1982; 8-12 Nuts and Seed Products, 1984; 8-15 Finfish and Shellfish Products, 1988 and 1989 Supplement to Agricultural Handbook No. 8, 1990.

²Includes fatty acids with chains from 4-24 carbon atoms.

³Suitable as salad oil.

⁴Mean values of selected samples may vary with brand name and date of manufacture.

Table 36—Fruit, vegetable, and juice containers: Dimensions, capacities, and conversion factors

| | | Total capacity | Total capacity | | or to mu | |
|----------------------------|-------------------------|---|------------------------------|---------|----------|----------|
| Industry designation | Dimensions ¹ | avoirdupois ounces of water at 68°F | grams of water at 20°C | No. 303 | | No. 21/2 |
| | | Ounces | Grams | | | |
| 6Z | 202 x 308 | 6.00 | 186.62 | 0.36 | 0.30 | 0.20 |
| 8Z short | 211 x 300 | 7.90 | 245.71 | .47 | .39 | .27 |
| 8Z tall | 211 x 304 | 8.65 | 269.04 | .51 | .42 | .29 |
| No. 1 flat | 307 x 203 | 8.89 | 276.51 | .53 | .43 | .30 |
| No. 1 picnic | 211 x 400 | 10.90 | 339.02 | .65 | .53 | .37 |
| No. 211 cylinder | 211 x 414 | 13.55 | 421.45 | .80 | .66 | .46 |
| No. 2 vacuum | | | | | | |
| (12-ounce vacuum) | 307 x 306 | 14.70 | 457.21 | .87 | .72 | .49 |
| No. 300 | 300 x 407 | 15.20 | 472.77 | .90 | .74 | .51 |
| No. 1 tall | 301 x 411 | 16.60 | 516.31 | .99 | .81 | .56 |
| No. 303 | 303 x 406 | 16.85 | 524.09 | 1.00 | .82 | .57 |
| No. 300 cylinder | 300 x 509 | 19.40 | 603.40 | 1.15 | .95 | .65 |
| No. 2 | 307 x 409 | 20.50 | 637.61 | 1.22 | 1.00 | .69 |
| No. 303 cylinder | 303 x 509 | 21.85 | 679.60 | 1.30 | 1.07 | .73 |
| No. 3 vacuum | 404 x 307 | 23.85 | 741.81 | 1.42 | 1.16 | .80 |
| Jumbo | 307 x 510 | 25.70 | 799.35 | 1.53 | 1.26 | .87 |
| No. 2 cylinder | 307 x 512 | 26.35 | 819.56 | 1.56 | 1.28 | .89 |
| No. 21/2 | 401 x 411 | 29.75 | 925.31 | 1.77 | 1.45 | 1.00 |
| 29 Z | 307 x 700 | 32.50 | 1 010.85 | 1.93 | 1.58 | 1.09 |
| 32Z (quart) | 307 x 710 | 35.50 | 1 104.16 | 2.10 | 1.73 | 1.19 |
| No. 3 cylinder (46 ounces) | 404 x 700 | 51.70 | 1 608.03 | 3.06 | 2.52 | 1.74 |
| No. 5 squat | 603 x 408 | 68.15 | 2 119.67 | 4.03 | 3.32 | 2.29 |
| No. 10 | 603 x 700 | 109.45 | 3 404.22 | 6.48 | 5.34 | 3.67 |

¹The first figures represent the diameter of the container and the second figures represent the height. The first digit represents inches and the second two digits represents sixteenths of an inch; that is, 307 is 3-7/16 inches.

Source: National Canners Association.

Table 37—Canned fruits and vegetables: Case conversion factors by container designation

| Containon designation | Containers | 24/303's | | multiply |
|--------------------------------|------------|----------|--------|----------------------------------|
| Container designation | per case | 24/303 S | 23/2's | 24/2 ¹ / ₂ |
| | Number | | | |
| 6 Z | 48 | 0.72 | 0.59 | 0.41 |
| BZ short | 72 | 1.41 | 1.16 | .80 |
| 8Z tall | 24 | .52 | .42 | .29 |
| No. 1 flat | 48 | 1.05 | .87 | .60 |
| No. 1 picnic | 48 | 1.30 | 1.06 | .73 |
| No. 211 cylinder | 24 | .80 | .66 | .46 |
| No. 2 vacuum (12-ounce vacuum) | 24 | .87 | .72 | .49 |
| No. 300 | 24 | .90 | .74 | .51 |
| No. 1 tall | 24 | .99 | .81 | .56 |
| No. 303 | 24 | 1.00 | .82 | .57 |
| No. 300 cylinder | 24 | 1.15 | .94 | .65 |
| No. 2 | 24 | 1.22 | 1.00 | .69 |
| No. 3 vacuum | 24 | 1.42 | 1.16 | .80 |
| No. 21/2 | 24 | 1.77 | 1.45 | 1.00 |
| 29Z | 12 | .96 | .79 | .55 |
| 32Z (quart) | 12 | 1.05 | .86 | .60 |
| No. 3 cylinder | 12 | 1.53 | 1.26 | .87 |
| No. 5 squat | 6 | 1.01 | .83 | .57 |
| No. 10 | 6 | 1.62 | 1.33 | .92 |

Source: National Canners Association.

Table 38—Canned fruits: Factors relating to farm and processed weights

| | Farm | weight | | | canned per | | a | |
|---------------------|--------|------------------------------|--|--------|-------------------------|--------|-------------------------------------|------------------------------------|
| Commodity | Canned | Case No. 24 2.5 pounds | Pounds canned from pounds farm weight | | n farm weig 24/303's | 6/10's | Cases of 24/2½'s from pounds canned | Net weigh per case 24/21/2's |
| | | Pounds | | | | Cases | | Pounds |
| Citrus fruit: | | | | | | | | |
| Citrus salad | 2.10 | 91.32 | 0.48 | 19.86 | 35.19 | 21.59 | 0.02 | 43.50 |
| Grapefruit sections | 2.02 | 87.72 | .50 | 20.68 | 36.55 | 22.49 | .02 | 43.50 |
| Orange sections | 2.22 | 96.62 | .45 | 18.77 | 33.20 | 20.41 | .02 | 43.50 |
| Other fruit: | | | | | | | | 39.00 |
| Apples | 1.86 | 72.46 | .54 | 25.03 | 44.08 | 27.21 | .03 | |
| Applesauce | 1.25 | 53.90 | .80 | 33.65 | 59.50 | 36.73 | .02 | 43.50 |
| Apricots | .69 | 31.25 | 1.44 | 58.05 | 102.76 | 63.40 | .02 | 45.00 |
| Berries: | | | | | | | | |
| Blackberries | .65 | 28.09 | 1.55 | 64.58 | 113.38 | 70.29 | .02 | 43.50 |
| Blueberries | .84 | 36.36 | 1.20 | 49.89 | 88.34 | 54.51 | .02 | 43.50 |
| Boysenberries | .69 | 29.24 | 1.44 | 62.04 | 108.84 | 67.48 | .02 | 43.50 |
| Gooseberries | .60 | 25.06 | 1.68 | 72.38 | 126.98 | 78.73 | .02 | 43.50 |
| Loganberries | .65 | 29.24 | 1.53 | 62.04 | 108.84 | 67.48 | .02 | 43.50 |
| Raspberries | .64 | 26.99 | 1.56 | 67.21 | 117.91 | 73.10 | .02 | 43.50 |
| Strawberries | .73 | 30.49 | 1.38 | 59.50 | 104.31 | 64.67 | .02 | 43.50 |
| Cherries: | | | | | | | | |
| Red tart-pitted | 1.06 | 45.87 | .95 | 39.55 | 69.66 | 42.99 | .02 | 43.50 |
| Sweet-pitted | 1.02 | 44.44 | .98 | 40.82 | 72.20 | 44.44 | .02 | 43.50 |
| Sweet-unpitted | .71 | 30.77 | 1.41 | 58.96 | 104.31 | 64.22 | .02 | 43.50 |
| Cranberries | .39 | 16.31 | 2.58 | 111.20 | 195.01 ² | 120.90 | .02 | 48.00 |
| Figs | .65 | 29.41 | 1.53 | 61.68 | 109.20 | 67.21 | .02 | 45.00 |
| Fruit cocktail | .89 | 40.00 | 1.13 | 45.35 | 80.27 | 49.43 | .02 | 45.00 |
| Fruits for salad | .89 | 40.00 | 1.13 | 45.35 | 80.27 | 49.43 | .02 | 45.00 |
| Olives ³ | .95 | 25.51 | 1.06 | 71.11 | 125.71 | 77.46 | .04 | 27.00 |
| Peaches: | | | | | | | | |
| Clingstone | .84 | 36.36 | 1.20 | 49.89 | 88.34 | 54.51 | .02 | 43.50 |
| Freestone | 1.02 | 44.44 | .98 | 40.82 | 72.20 | 44.44 | .02 | 43.50 |
| Pears | 1.00 | 43.48 | 1.00 | 41.72 | 73.83 | 45.44 | .02 | 43.50 |
| Pineapple | 1.71 | 76.92 | .59 | 23.58 | 41.72 | 25.67 | .02 | 45.00 |
| Plums, fresh | .66 | 29.85 | 1.51 | 60.77 | 107.57 | 66.21 | .02 | 45.00 |

Note: Relationships between farm and processed weights for most commodities vary widely from season to season and between localities. Factors shown in this table represent average relationships for all producing areas.

¹Basic figure is 24/2's for citrus, 24/303's for applesauce and berries, 6/10's for apple slices and red tart cherries, 24/300's for cranberries, and 24/2½'s for other products.

²Basis 24 cases of No. 300's.

³Drained weight.

Table 39—Canned fruits and juices: Net weight per case¹

| Item | Liquid contents | 48, 8 | -ounce | | 24 No | . 303 | 12 N | o. 3 cylino | lers |
|-----------------------|----------------------------|------------|--------------|--------------|------------|--------------|--------------|--------------|--------------|
| | | Pounds | Kilograms | Po | ounds | Kilograms | Poun | ds Kiloş | grams |
| Canned fruits: | | | | | | | | | |
| Citrus— | | | | | | | | | |
| Grapefruit and orange | | 2.4 | 10.0 | • | 4.0 | 10.0 | 27.5 | 177 | |
| sections | Syrup | 24 24 | 10.9 10.9 | | 4.0 NA | 10.9 NA | 37.5 NA | | .0 A |
| Grapefruit sections | Water | 24 | 10.9 | 1 | NA | NA | NA | IN | A |
| | Type pack | 24, 8-0 | unce tall | 24 No | . 303 | 24 No | . 2.5 | 6 No | . 10 |
| | | | Kilo- | | Kilo- | | Kilo- | | Kilo- |
| | | Pounds | grams | Pounds | grams | Pounds | grams | Pounds | grams |
| Noncitrus— | | | | | | | | | |
| Apples | Specific | | | | 400 | | | 40.5 | 40.0 |
| | gravity 0.95 | NA | NA | 24.0 | 10.9 | | NA | 40.5 | 18.3 |
| | Water | NA | NA | NA | NA | NA | NA | 37.5 | 17.0 |
| Apple butter | a .c | NA | NA | NA | NA | NA | NA | 46.5 | 21.1 |
| Applesauce | Specific | BT A | NI A | 24.0 | 10.9 | 43.5 | 19.7 | 40.5 | 18.4 |
| A | gravity 1.07 | NA 13.1 | NA 5.9 | 24.0 24.0 | 10.9 | | 20.4 | 40.5 40.5 | 18.4 |
| Apricots | Heavy syrup Light syrup | 12.8 | 5.8 | 24.0 24.0 | 10.9 | | 20.4 19.7 | 39.8 | 18.1 |
| Blackberries | Heavy syrup | 12.8 | 5.8 | 24.0 | 10.9 | | NA | 39.8 | 18.1 |
| Blackocifies | Light syrup | 12.8 | 5.8 | 24.0 | 10.9 | | NA | 39.4 | 17.9 |
| Cherries— | Water | 12.0 | 5.4 | 24.0 | 10.9 | | NA | 38.6 | 17.5 |
| Unpitted | Heavy syrup | 13.1 | 5.9 | 24.0 | 10.9 | | 20.4 | 40.5 | 18.4 |
| - 1. F 1 2 | Light syrup | 12.8 | 5.8 | 24.0 | 10.9 | | 19.7 | 39.8 | 18.1 |
| Pitted | Heavy syrup | 13.1 | 5.9 | 24.0 | 10.9 | 43.5 | 19.7 | 40.5 | 18.4 |
| | Water | 12.0 | 5.4 | 24.0 | 10.9 | 42.0 | 19.1 | 38.6 | 17.5 |
| Cranberry sauce | 42% solids | NA | NA | 24.0 | 10.9 | NA | NA | 43.9 | 19.9 |
| Figs | Heavy syrup | 13.1 | 5.9 | 25.5 | 11.6 | 45.0 | 20.4 | 41.3 | 18.7 |
| Fruit cocktail | Extra heavy syrup | 13.1 | 5.9 | 25.5 | 11.6 | 45.0 | 20.4 | 41.3 | 18.7 |
| | Heavy syrup | 13.1 | 5.9 | 24.0 | 10.9 | | 20.4 | 40.5 | 18.4 |
| Fruit for salad | Extra heavy syrup | | 5.9 | 25.5 | 11.6 | | 20.4 | 41.3 | 18.7 |
| | Heavy syrup | 13.1 | 5.9 | 24.0 | 10.9 | | 20.4 | 40.5 | 18.4 |
| Grapes | Extra heavy syrup | | 5.6 | 24.0 | 10.9 | | 20.4 | 41.3 | 18.7 |
| | Heavy syrup | 12.4 | 5.6 | 24.0 | 10.9 | | NA | NA 10.5 | NA |
| Peaches | Heavy syrup | 13.1 | 5.9 | 24.0 | 10.9 | | 19.7 | 40.5 | 18.4 |
| D | Light syrup | 12.8 | 5.8 | 24.0 | 10.9 | | 19.7 | 39.8 | 18.1 |
| Pears | Heavy syrup | 12.8 | 5.8 5.0 | 24.0 | 10.9 | | 19.7 | 39.8 | 18.1 17.9 |
| Dinaanala | Light syrup | 12.8 | 5.8 N.A | 24.0 NA | 10.9 NA | 43.5 44.3 | 19.7 20.1 | 39.4 40.5 | 17.9 |
| Pineapple | Heavy syrup | NA NA | NA NA | NA NA | NA NA | 44.3 NA | 20.1 NA | 40.5 39.8 | 18.4 |
| Plums | Water Heavy syrup | NA 13.2 | 6.0 | NA 24.0 | 10.9 | | NA 20.4 | 39.8 NA | NA |
| Fiums | Light syrup | 12.8 | 5.8 | 24.0 24.0 | 10.9 | | 20.4 19.7 | 39.8 | 18.1 |
| Prunes, stewed | Extra heavy syrup | | NA | NA | NA | 45.0 | 20.4 | 41.3 | 18.7 |
| Trunes, stewed | Heavy syrup | NA NA | NA NA | NA NA | NA | NA | NA | 40.5 | 18.4 |

See footnote at end of table.

Continued-

Table 39—Canned fruits and juices: Net weight per case¹—Continued

| em | 48, | 6.5-ounce | 24 | 1 No. 2 | 12 No | o. 3 cylinder | s 2 | 4 No. 2.5 |
|--|--------|-----------|--------|-----------|--------|---------------|--------|-----------|
| | Pounds | Kilograms | Pounds | Kilograms | Pounds | Kilograms | Pounds | Kilograms |
| Canned juices: | | | | | | | | |
| Citrus— | | | | | | | | |
| Blended citrus | 19.5 | 8.8 | 29.6 | 13.4 | 37.3 | 16.9 | 8.7 | 3.9 |
| Grapefruit | 19.5 | 8.8 | 29.6 | 13.4 | 37.3 | 16.9 | 8.7 | 3.9 |
| Lemon and lime | NA | NA | 29.2 | 13.2 | 36.8 | 16.7 | 8.6 | 3.9 |
| Orange | 19.5 | 8.8 | 29.6 | 13.4 | 37.3 | 16.9 | 8.7 | 3.9 |
| Tangerine | 19.5 | 8.8 | 29.6 | 13.4 | 37.3 | 16.9 | 8.7 | 3.9 |
| | 24 | No. 2 | 12/32 | 2Z glass | 12/4 | OZ glass | G | allon |
| Noncitrus— | Pounds | Kilograms | Pounds | Kilograms | Pounds | Kilograms | Pounds | Kilograms |
| | 29.9 | 13.6 | 26.2 | 11.9 | 32.8 | 14.9 | 8.8 | 4.0 |
| Apple | 30.6 | 13.0 | 26.5 | 12.0 | 33.0 | 15.0 | 9.0 | 4.0 |
| Grape Nectar | 29.9 | 13.9 | 26.0 | 11.8 | 32.5 | 14.7 | 8.8 | 4.1 |
| | 29.9 | 13.6 | 26.2 | 11.9 | 32.8 | 14.7 | 8.8 | 4.0 |
| Pineapple Prune (18.5° Brix) ² | NA | NA | 26.7 | 12.1 | 33.4 | 15.1 | NA | NA |

NA = Not available.

¹Weights are derived from Net Contents Statements for Canned Food Labels, 1977, National Canners Association.

²A hydrometer scale for measuring the sugar content of a solution at a given temperature.

Table 40—Fruit juices and concentrates: Factors relating to farm and processed weights¹

| | | • | lent farm | | | _ | _ | |
|-----------------------------|----------------------------------|---------------|------------------|---------------------------------|------|----------------------|------------------------|--|
| Fruit and specification | Approximate Brix ² | Gallon Gallon | ht per— Liter | Gallons per unit of farm weight | | Processe | Processed weight | |
| | Degrees | Pounds | Kilograms | Box ³ | Ton | Pounds per gallon | Kilograms per liter | |
| Apple: | | | | | | | | |
| Single-strength juice | 13 | 12.0 | 20.6 | NA | 170 | 8.8 | 15.11 | |
| Frozen 3-to-1 concentrate | 45 | 47.0 | 80.7 | NA | 43 | 10.0 | 17.17 | |
| Citrus fruits: ⁴ | | | | | | | | |
| Orange— | | | | | | | | |
| Single-strength juice | 12 | 16.0 | 27.5 | 5.5 | 122 | 8.7 | 14.94 | |
| Frozen concentrate | 45 | 69.0 | 118.5 | 1.3 | 29 | 10.0 | 17.17 | |
| Grapefruit— | | | | | | | | |
| Single-strength juice | 10 | 18.0 | 30.9 | 4.7 | 110 | 8.7 | 14.94 | |
| Frozen concentrate | 40 | 83.0 | 142.5 | 1.0 | 24 | 9.8 | 16.83 | |
| Lemon— | | | | | | | | |
| Single-strength juice | 5 | 26.0 | 44.6 | 2.9 | 76 | NA | NA | |
| Nonfrozen concentrate | 5 | 112.0 | 192.3 | .7 | 17.9 | NA | NA | |
| Concentrate for lemonade | 5 | 18.0 | 30.9 | 4.2 | 110 | NA | NA | |
| Grape: | | | | | | | | |
| Single-strength juice | 16 | 11.0 | 18.9 | NA | 175 | 8.9 | 15.28 | |
| Frozen concentrate | 50 | 40.0 | 68.7 | NA | 50 | 10.3 | 17.68 | |
| Pineapple: | | | | | | | | |
| Single-strength juice | 14 | 15.0 | 25.8 | NA | 133 | 8.8 | 15.11 | |
| 4-to-1 concentrate | 61 | 75.0 | 128.8 | NA | 27 | 10.8 | 18.54 | |
| 3-to-1 concentrate | 50 | 60.0 | 103.0 | NA | 33 | 10.3 | 17.68 | |
| Prune (from fresh prunes): | | | | | | | | |
| Single-strength juice | 31 | 13.0 | 22.3 | NA | 155 | 9.4 | 16.14 | |
| 1.5-to-1 concentrate | 73 | 32.0 | 54.9 | NA | 62 | 11.4 | 19.57 | |

NA = Not available.

¹For additional information on concentration of fruit juices, see U.S. Dept. Agr., Agricultural Research Service, Calculations of Volume and Weight Reduction in the Concentration of Fruit Juices, ARS 74-7, June 1956.

²A hydrometer scale for measuring the sugar content of a solution at a given temperature.

³Oranges, 90 pounds (41 kilograms); grapefruit, 85 pounds (39 kilograms); and lemons, 76 pounds (34 kilograms).

⁴Orange and grapefruit products based on Florida yields; lemons on California yields.

⁵Lemon product yields are based on a standard ton containing 36.5 pounds of anhydrous citric acid.

Table 41—Dehydrated and dried fruits: Relationship between farm and processed weights

| | | Factors for converting to- | |
|--------------------------------|---|--|---|
| Commodity | Farm weight from natural condition weight | Farm weight from packed processed weight | Packed processed weight from natural condition weight |
| Apples | 8.00 | 8.00 | 1.00 |
| Apricots | 6.00 | 5.56 | 1.08 |
| Dates:1 | | | |
| Whole | 1.00 | 1.00 | 1.00 |
| Pitted | NA | 1.14 | .88 |
| Figs | 3.00 | 2.94 | 1.02 |
| Peaches: | | | |
| Cling | 7.50 | 6.94 | 1.08 |
| Freestone— | | | |
| Elberta | 7.00 | 6.48 | 1.08 |
| Other | 6.00 | 5.55 | 1.08 |
| Pears | 6.50 | 6.31 | 1.03 |
| Prunes: ² | | | |
| California | 2.90 | 2.60 | 1.04 |
| Pacific Northwest | 3.14 | 3.05 | 1.03 |
| Raisins: | | | |
| Thompson, sultana ³ | 4.30 | 4.62 | .93 |
| Golden seedless | 4.30 | 4.53 | .95 |
| Muscat, seeded | 4.00 | 5.00 | .80 |

NA = Not available.

¹Includes only farm sales of dates for human consumption after farm cullage. Average farm sales of cull dates directly into nonfood channels estimated at 14% of U.S. production.

²To convert canned dried prunes to dried prunes, multiply by 0.691085.

³Includes unseeded muscats.

Table 42-Fruits, dehydrated (low moisture): Relationship between farm and processed weights

| specifications | | aged weight of 10 can | | on can | Units of fresh pr a unit of dehyd | |
|-------------------------|---------|--------------------------|--------|-----------|--------------------------------------|-----------|
| | Pounds | Kilograms | Pounds | Kilograms | Pounds | Kilograms |
| Apples: | | | | | NA | NA |
| Wedges | 2.0 | 0.9 | NA | NA | NA | NA |
| Slices | 2.0 | .9 | NA | NA | NA | NA |
| Diced | 2.4 | 1.1 | NA | NA | 10.0 | 4.5 |
| Nuggets | 2.5 | 1.1 | NA | NA | NA | NA |
| Powder | NA | NA | 5 | 2.3 | NA | NA |
| Apricots: | | | | | | |
| Slices | 2.75 | 1.2 | NA | NA | NA | NA |
| Diced | 3.5 | 1.6 | NA | NA | NA | NA |
| Nuggets | 3.5 | 1.6 | NA | NA | 7.1 | 3.2 |
| Powder | NA | NA | 6 | 2.7 | NA | NA |
| Cherries, sour-pitted | .7 | .3 | NA | NA | 7.0 | 3.2 |
| Dates: | | | | | | |
| Nuggets | 3.5 | 1.6 | NA | NA | NA | NA |
| Powder | 3.5 | 1.6 | 6 | 2.7 | 1.75^{1} | .8 |
| Figs: | | | | | | |
| Slices | 3.0 | 1.4 | NA | NA | NA | NA |
| Powder | NA | NA | 6 | 2.7 | 1.35^{1} | .6 |
| Peaches: | | | | | | |
| Slices | 2.0 | .9 | NA | NA | NA | NA |
| Diced | 3.0 | 1.4 | NA | NA | NA | NA |
| Nuggets | 3.0 | 1.4 | NA | NA | 7.0- 8.0 | 3.2-3.6 |
| Powder | NA | NA | 6 | 2.7 | | |
| Pears, slices | 1.5 | .7 | NA | NA | 11.0-12.0 | 5.0-5.4 |
| Prunes: | | | | | | |
| Whole pitted | 3.0 | 1.4 | NA | NA | NA | NA |
| Nuggets | 3.0 | 1.4 | NA | NA | 1.71^{1} | .8 |
| Powder | NA | NA | 6 | 2.7 | | |
| Strawberries, freeze-di | ried .7 | .3 | NA | NA | 11.0-14.0 | 5.0-6.4 |

NA = Not available.

¹From commercially dried fruit.

Table 43—Frozen fruits and vegetables: Estimated average relationship between farm and processed weights

| | | Factors for c | onverting to— | |
|--------------------------|------------------------|--------------------------------------|---|--|
| Commodity | Percentage recovery | Farm weight from frozen weight | Frozen weight from farm weight ¹ | Approximate fruit-to- sugar ratio ² |
| | Percent | | | |
| Frozen fruits: | | | | |
| Apples | 6 0 | 1.67 | 0.60 | 0 or 7 to 1 |
| Apricots | 78 | 1.10 | .91 | 6 or 8 to 1 |
| Berries— | , - | 2125 | | 0 01 0 00 1 |
| Blackberries | 95 | 1.05 | .95 | 0 |
| Blueberries | 97 | 1.03 | .97 | Ö |
| Boysenberries | 88 | 1.14 | .88 | Ö |
| Gooseberries | 97 | 1.03 | .97 | 0 |
| Loganberries | 88 | 1.14 | .88 | Ö |
| Raspberries | 95 | 1.05 | .95 | 0 |
| Strawberries | 93 | .89 | 1.12 | 5 or 4 to 1 |
| Cherries, sour | 75 | 1.11 | .90 | 5 to 1 |
| Cherries, sweet | 85 | 1.18 | .85 | 0 |
| Grapes | 85 | 1.18 | .85 | 0 |
| Peaches | 67 | 1.25 | .80 | 5 to 1 |
| Pineapples | 50 | 1.60 | .625 | 4 to 1 |
| Prunes | 85 | 1.18 | .85 | 0 |
| Frozen vegetables: | | | | |
| Asparagus | 52 | 1.92 | .52 | 2 |
| Broccoli | 75 | 1.33 | .75 | 2 |
| Brussels sprouts | 75 | 1.33 | .75 | 2 |
| Carrots | 55 | 1.82 | .55 | 2 |
| Cauliflower | 70 | 1.43 | .70 | 2 |
| Corn, cut | 27 | 3.70 | .27 | 2 |
| Lima beans ³ | 95° | 1.05 | .95 | 2 |
| Okra | 85 | 1.18 | .85 | 2 |
| Other greens | 75 | 1.33 | .75 | 2 |
| Peas, green ³ | 92 | 1.09 | .92 | 2 |
| Peas, southern | 50 | 2.00 | .50 | 2 |
| Peppers, sweet | 70 | 1.43 | .70 | 2 |
| Potatoes, white | 40 | 2.50 | .40 | 2 |
| Snap beans | 85 | 1.18 | .85 | 2 |
| Spinach | 70 | 1.43 | .70 | 2 |
| Squash | 55 | 1.82 | .55 | 2 |
| Sweetpotatoes | 50 | 2.00 | .50 | 2 |

¹Frozen weight is weight of frozen fruit plus sugar content. Where more than one fruit-to-sugar ratio is shown, the first is used in this computation.

²Fruit-to-sugar ratio does not apply to vegetables.

³Shelled.

Table 44—Fruits and vegetables: Relationship between weights of freeze-dried and frozen products¹

| Frozen food | Moisture content | Freeze-dried weight as percentage of frozen weight | Factors to convert freeze-dried weight to frozen weight | |
|--------------------------------------|------------------|--|---|--|
| | | Percent | | |
| Apples, uncooked, sliced, sweetened | 73.3 | 0.27 | 3.7 | |
| Apricots, uncooked | 85.4 | .15 | 6.7 | |
| Blueberries, uncooked, unsweetened | 85.0 | .15 | 6.5 | |
| Broccoli, cooked or uncooked | 90.6 | .96 | 10.4 | |
| Brussels sprouts, cooked or uncooked | 89.3 | .11 | 9.2 | |
| Cauliflower, cooked or uncooked | 92.9 | .72 | 13.9 | |
| Green peas, cooked | 81.7 | .19 | 5.4 | |
| Green peppers, cooked | 94.7 | .54 | 18.5 | |
| Mushrooms, uncooked, whole, | | | | |
| pieces or sliced | 90.4 | .98 | 10.2 | |
| Pears, uncooked pieces or sliced | 82.7 | .18 | 5.7 | |
| Pineapples, uncooked slices or | | | | |
| chunks, sweetened | 77.1 | .23 | 4.3 | |
| Plums, Italian, uncooked pieces | | | | |
| or sliced | 78.7 | .22 | 4.6 | |
| Raspberries, red, uncooked | 74.3 | .26 | 3.8 | |
| Snap beans, cooked | 91.6 | .86 | 11.6 | |
| Strawberries, whole, uncooked | 75.5 | .25 | 4.0 | |

¹Freeze-dried products contain 2% moisture.

Table 45—Canned vegetables: Factors relating to farm and processed weights

| Commodity | Pounds fa | rm weight | Pounds canned | Cases canno | ed per ton f | arm weight ¹ | Cases 24/303's | Net weigh |
|----------------------------|--------------------|---------------------------|-------------------------|-------------|--------------|-------------------------|--------------------|----------------------|
| y | From pounds canned | From case No. 24/303's | from pounds farm weight | 24/303's | 24 2½'s | 6/10's | from pounds canned | per case 24/303's |
| | | Pounds | | | | Cases | | Pounds |
| Asparagus | 1.220 | 28.57 | .819 | 70 | 39.5 | 43.2 | 0.043 | 23.4 |
| Beets | 1.290 | 31.75 | .755 | 63 | 35.6 | 38.9 | .041 | 24.6 |
| Carrots | 1.333 | 32.79 | .750 | 61 | 34.5 | 37.7 | .041 | 24.6 |
| Corn: | | | | | | | | |
| Cream style | 2.033 | 50.00 | .492 | 40 | 22.6 | 24.7 | .041 | 24.6 |
| Whole grain | 2.538 | 62.50 | .394 | 32 | 18.1 | 19.8 | .041 | 24.6 |
| Lima beans ² | .625 | 15.38 | 1.599 | 130 | 73.4 | 80.2 | .041 | 24.6 |
| Mushrooms | 1.403 | 34.48 | .713 | 58 | 32.8 | 35.8 | .041 | 24.6 |
| Okra | 1.030 | 24.10 | .971 | 83 | 46.9 | 51.2 | .043 | 23.4 |
| Peas ² | .739 | 18.18 | 1.353 | 1 10 | 62.1 | 67.9 | .041 | 24.6 |
| Pickles | .744 | 17.86 | 1.344 | 112 | 63.8 | 69.4 | .042 | 30.0 |
| Pimentos | 2.410 | 57.14 | .415 | 35 | 19.8 | 21.6 | .042 | 23.7 |
| Potatoes, white | 1.572 | 37.74 | .636 | 53 | 29.9 | 28.7 | .042 | 24.0 |
| Pumpkin and squash | 2.710 | 66.67 | .369 | 30 | 16.9 | 18.5 | .041 | 24.6 |
| Sauerkraut | 1.859 | 43.48 | .538 | 46 | 26.0 | 28.4 | .043 | 23.4 |
| Snap beans | .712 | 16.67 | 1.404 | 120 | 67.8 | 74.1 | .043 | 23.4 |
| Spinach | .901 | 20.00 | 1.110 | 100 | 56.5 | 61.7 | .045 | 22.2 |
| Sweetpotatoes | 1.292 | 30.77 | .784 | 65 | 36.7 | 40.1 | .042 | 23.8 |
| Γomatoes | 1.553 | 36.36 | .644 | 55 | 31.1 | 34.0 | .043 | 23.4 |
| Fomato catsup ³ | 2.457 | 66.67 | .407 | 30 | 17.1 | 18.6 | .037 | 27.1 |
| Tomato juice | 1.527 | 36.36 | .655 | 55 | 31.1 | 34.0 | .042 | 23.8 |
| Tomato paste ³ | 5.432 | 142.86 | .184 | 14 | 8.0 | 8.7 | .038 | 26.3 |
| Tomato puree ⁴ | 3.247 | 80.00 | .308 | 25 | 14.2 | 15.5 | .041 | 24.6 |

¹Basic figure is yield of 24/303's per ton. One case 24/303's is equivalent to 0.57 cases 24/2½'s and 0.62 cases 6/10's. ²Shelled basis.

³33% solids.

^{411%} solids.

Table 46—Vegetables, dehydrated: Relationship between farm and processed weights and weight of product per 5-gallon container

| Commodity | Moisture | content | | Factors for c | converting to—2 | | | |
|-------------------------|--------------------------------|--|--------------------------------|---|---------------------------------------|-----------|--------|--------------------------|
| | Average for raw material | Dehy- drated product | Average losses ¹ | Processed weight from farm weight | Equivalent farm weight from processed | Product ` | | product per container |
| | | ## \$0.00 to | Percent | | *********** | | Pounds | Kilograms |
| Asparágus | 92 | 4 | 55 | 0 | 27.0 | Dice | 8 | 3.6 |
| | | | | | | Powder | 17 | 7.7 |
| Beans, green | 89 | 4 | 30 | 0.08 | 12.5 | ½-inch cu | t 7 | 3.2 |
| Beets without tops | 87 | 4 | 10 | .12 | 8.2 | Powder | 30 | 13.6 |
| Cabbage | 92 | 4 | 30 | .05 | 21.0 | Dice | 9 | 4.1 |
| | | | | | | Powder | 30 | 13.6 |
| Carrots | 86 | 4 | 35 | .10 | 10.5 | Dice | 10-20 | 4.5-9.1 |
| | | | | | | Powder | 35 | 15.9 |
| Celery: | | | | | | | | |
| Stalk and leaf flakes | 93 | 35 | 10 | .07 | 15.4 | Flakes | 3-6 | 1.4-2.7 |
| Stalk slice | 94 | 3.5 | 25 | .05 | 21.2 | Slice | 6 | 2.7 |
| Garlic | 71 | 5 | 15 | .26 | 4.0 | Sliced | 15 | 6.8 |
| | | | | | | Powder | 30 | 13.6 |
| Greens | 92 | 4 | 20-50 | .0407 | 15-25 | Flakes | 8 | 3.6 |
| | | | | | | Powder | 18 | 8.2 |
| Horseradish | 70 | 5 | 20 | .025 | 4.0 | Powder | 20 | 9.1 |
| Leek | 88 | 4 | 27 | .091 | 11.0 | Powder | 22 | 10.0 |
| Okra | 90 | 5 | 13 | .091 | 11.0 | Powder | 22 | 10.0 |
| Onion | 88 | 4 | 11 | .11 | 9.0 | Flakes | 10-15 | 4.5-6.8 |
| | | | | | | Powder | 25 | 11.3 |
| Onions, green tops | 90 | 4 | 20 | .083 | 12.0 | Flakes | 6 | 2.7 |
| | | | | | | Minced | 8 | 3.6 |
| Parsley | 89 | 4 | 15 | .10 | 10.3 | Flakes | 4 | 1.8 |
| | | | | | | Powder | 20 | 9.1 |
| Peas, green Peppers: | 78 | 4 | 10 | .20 | 5.0 | Powder | 18 | 8.2 |
| Green bell | 93 | 3.5 | 40 | .05 | 20.4 | Dice | 8 | 3.6 |
| | | | | | | Powder | 20 | 9.1 |
| Red bell | 90 | 5.5 | 38 | .06 | 15.6 | Dice | 10 | 4.5 |
| - | | | | | 22.0 | Powder | 25 | 11.3 |
| Pimento | 89 | 4 | 65 | .04 | 25.0 | Powder | 25 | 11.3 |
| Potatoes | 80 | 6 | 40 | .125 | 8.0 | Dice | 17 | 7.7 |
| | 78 | 6 | 33 | .1417 | 5.9-7.1 | Granules | 36 | 16.3 |
| | 80 | 4.5 | 33 | .1417 | 5.9-7.1 | Flakes | 10 | 4.5 |
| Pumpkin | 91 | 5 | 13 | .083 | 12.0 | Powder - | 25 | 11.3 |
| Spinach | 90 | 4 | 10 | .094 | 10.6 | Powder | 18 | 8.2 |
| Sweetpotato flakes | 69 | 3 | 23.5 | | 7.0 | | | |
| 1 | | - | | · - | | | | |
| Turnips | 91 | 5 | 33 | .063 | 16.0 | Dice | 14 | 6.4 |
| • | | ** | | | - · · · | Powder | 25 | 11.3 |
| Tomato flakes | 93 | 4 | 20 | .058 | 17.0 | Flakes | 12 | 5.4 |

^{- =} Not applicable.

¹Includes fines and defects removed during the final inspection of dried product and other process losses.

²Successful dehydration of many of these vegetables depends upon the ability to divert undesirable sizes and/or grades to other kinds of processing. If such outlets are not available, shrinkage ratios will be greater than shown.

Table 47—Dehydrofrozen fruits and vegetables: Relationship between moisture content of product and weight reduction

| Percentage or moisture cont | | Percentage moisture content in product at percentage weight reduction of— | | | | | |
|-----------------------------|----|---|--------------|-------|--|--|--|
| moisture cont | 50 | 60 | 70 | 80 | | | |
| | | Perc | ent | | | | |
| 95 | 90 | 87.5 | 83.3 | 75 | | | |
| 90 | 80 | 75.0 | 66.7 | 50 | | | |
| 85 | 70 | 62.5 | 50.0 | 25 | | | |
| 80 | 60 | 50.0 | 33.3 | 0 | | | |
| 75 | 50 | 37.5 | 16.7 | - | | | |
| 70 | 40 | 25.0 | 0 | - | | | |
| 65 | 30 | 12.5 | min-mail | | | | |
| 60 | 20 | 0 | etocretia | | | | |
| 55 | 10 | | Pichigen | ***** | | | |
| 50 | 0 | **** | ************ | | | | |

^{- =} Not applicable.

Table 48—Dehydrofrozen fruits and vegetables: Relationship between prepared material and product

| Commodity | Units of prepared material to produce pound dehydrofrozen product ¹ | | | | |
|------------|--|-----------|--|--|--|
| | Pounds | Kilograms | | | |
| Apples | 2 | 0.91 | | | |
| Carrots | 2 | .91 | | | |
| Cherries | 2-2.5 | .9-1.1 | | | |
| Green peas | 2 | .91 | | | |
| Pimentos | 3 | 1.36 | | | |
| Potatoes: | | | | | |
| Piece form | 2 | .91 | | | |
| Mashed | $\frac{\overline{4}}{4}$ | 1.81 | | | |

¹After peeling, trimming, and cutting. Preparation losses should be the same as for freezing.

Table 49—Fruit and vegetable juice powders: Factors relating to farm and processed weights

| | Approximate | | Factors for o | converting to— |
|-------------|--|--|---|--|
| Commodity | percentage solids content of juice | Yield of juice as a percentage of raw material | Processed weight from farm weight | Equivalent farm weight from processed weight |
| | Pe | rcent | | |
| Apple | 12 | 75 | 0.092 | 11 |
| Citrus: | | | | |
| Grapefruit | 11 | 49 | .055 | 18 |
| Lemon | 9 | 40 | .037 | 27 |
| Orange | 13 | 55 | .072 | 14 |
| Grape | 17 | 75 | .130 | 8 |
| Pineapple 1 | 15 | 58 | .089 | 11 |
| Prune | 32 | 74 | .250 | 4 |
| Tomato | 6.4 | 70 | .045 | 22 |

¹Assuming juice is only product. In practice, however, juice is made only from edible grade peels, cores, trimmings, and sortouts.

Table 50—Potatoes: Estimated conversion factors for selected products

| Products | Farm weight | Finished product | Farm weight | Finished product | Recovery | To obtain farm weight equivalent, multiply product weight by— |
|----------|----------------|------------------|----------------|------------------|----------|---|
| | Poi | unds | Kilograms | | Percent | Number |
| Chips | 100 | 33.31 | 45.4 | 15.1 | 33.31 | 3.0 |
| Frozen | 100 | 50.0 | 45.4 | 22.7 | 50.0 | 2.0 |
| Starch: | | | | | | |
| Idaho | 100 | 12.5 | 45.4 | 5.7 | 12.5 | 8.00 |
| Maine | 100 | 9.3 | 45.4 | 4.2 | 9.3 | 10.75 |
| Average | 100 | 11.1 | 45.4 | 5.0 | 11.1 | 9.00 |

Note: In commercial potato-peeling plants, preparation loss, including waste and shrinkage, ranged from 5% to 48%, averaging approximately 25%.

¹From potatoes with 1.075 specific gravity.

Table 51-Tree nuts: Relationship between shelled and in-shell, and between farm and retail weights

| | | Factors for converting to— | | | | | | |
|-----------------------|---|---|----------------------------------|--|--|--|--|--|
| Commodity | Shelled weight from in-shell weight | In-shell equivalent from shelled weight | Retail weight from orchard-run 1 | Orchard-run equivalent from retail weight ¹ | | | | |
| Almonds: | | | | | | | | |
| Domestic ² | 0.60 | 1.67 | 0.95 | 1.05 | | | | |
| Imported | .30 | 3.33 | NA | NA | | | | |
| Brazil nuts | .50 | 2.00 | NA | NA | | | | |
| Cashews | .22 | 4.55 | NA | NA | | | | |
| Chestnuts | .84 | 1.19 | NA | NA | | | | |
| Filberts: | | | | | | | | |
| Domestic | .40 | 2.50 | .95 | 1.05 | | | | |
| Imported | .45 | 2.22 | NA | NA | | | | |
| Macadamias (H | | 2.63 | NA | NA | | | | |
| Pecans: | | | | | | | | |
| Domestic- | | | | | | | | |
| Improved | .50 | 2.00 | .91 | 1.10 | | | | |
| Seedling | .38 | 2.63 | .91 | 1.10 | | | | |
| Imported | .50 | 2.00 | NA | NA | | | | |
| Pistachios | .43 | 2.33 | .33 | 1.67 | | | | |
| Walnuts, Englis | sh: | | | | | | | |
| Domestic ³ | .40 | 2.50 | .87 | 1.15 | | | | |
| Imported | .42 | 2.38 | NA | NA | | | | |
| Walnuts, black | .17 | 5.88 | NA | NA | | | | |

NA = Not available.

Table 52—Yield of product per unit of coffee or tea¹

| Commodity | Yield of product |
|---------------------------------|-------------------------------|
| Coffee (green or decaffeinated) | 0.84 units roasted coffee, or |
| Tea (dry leaf basis) | .4 units instant soluble |

¹A standard 60-kilogram bag of green coffee equals 132.276 pounds.

¹Orchard-run weight before culling. Both orchard-run and retail weight are in-shell basis.

²Average for domestic crop in recent years. The following illustrate the variation among various varieties: Nonpareil, Merced, and Thompson 0.60; merced on 0.40; Peerless 0.35. Peerless is frequently marketed in-shell.

³Average for portion of crop shelled commercially. Equivalent shelled and in-shell ratio for graded walnuts sold in-shell is 0.45, and average for entire U.S. walnut crop is 0.40.

Table 53—Raw sugar content per pound of specified sugar products

| | Sugar in specified units of product ¹ | | | | | | |
|-----------------------------|--|---------|-------|---------|--|--|--|
| Product | Raw | Refined | Raw | Refined | | | |
| | Pot | unds | Kilo | grams | | | |
| Brown sugar | 0.963 | 0.90 | 0.437 | 0.408 | | | |
| Invert sugar | .856 | .80 | .388 | .363 | | | |
| Lump sugar | 1.070 | 1.00 | .485 | .454 | | | |
| Powdered sugar ² | 1.038 | .97 | .471 | .440 | | | |
| Sugar, granulated | 1.070 | 1.00 | .485 | .454 | | | |
| Invert syrup: | | ř | | | | | |
| High invert | .740 | .69 | .336 | .313 | | | |
| Medium invert | .790 | .74 | .358 | .336 | | | |
| Sucrose syrup | .690 | .64 | .313 | .290 | | | |

Table 54—Sugar content of canned fruits

| | Natural | Added refined cane and beet sugar ¹ | | | | |
|------------------|----------------|--|---------------|---------|--|--|
| Canned product | fruit sugar | Weight in 2 | Sugar content | | | |
| | Percent | Pounds | Kilograms | Percent | | |
| Apricots | 14.4 | 2.97 | 1.35 | 6.6 | | |
| Cherries (sweet) | 13.9 | 2.75 | 1.25 | 6.1 | | |
| Figs | 19.0 | .90 | .41 | 2.0 | | |
| Fruit cocktail | 11.0 | 3.15 | 1.43 | 7.0 | | |
| Fruit for salad | 9.9 | 3.52 | 1.60 | 8.1 | | |
| Peaches | 11.8 | 3.13 | 1.42 | 7.2 | | |
| Pears | 11.6 | 2.78 | 1.26 | 6.4 | | |
| Plums | 14.8 | 2.79 | 1.27 | 6.2 | | |

¹Based on the finished canned product packed in heavy syrup.

¹Raw value is 96° polar sugar. ²Powdered sugar contains about 3% cornstarch to prevent lumping.

Table 55—Refined beet and cane sugar in confectionery products

| | Share of refined sugar in product | Product | Share of refined sugar in produc |
|---------------------------------|-----------------------------------|------------------------------------|-------------------------------------|
| | Percent | | Percent |
| Confections: ¹ | | Confections: 1—Continued | |
| Candy | | Chocolate coated candies— | |
| Uncoated candies— | | Marshmallows | 45 |
| Caramels | 30-45 | Nougats | 45 |
| Creams, candy corn, | | Peanuts and nut meats | 40 |
| crystallized creams, | | | |
| and other | 70 | Bars, uncoated— | |
| Grained mint types, and | | Nougats, taffy, caramels, jelly, | |
| other so-called pure sugar | 90 | and other | 40 |
| Fudges | 40-45 | Peanut brittle | 30-67 |
| Hard candies such as fruit | | | |
| drops, Christmas candies, | | Solid chocolate, stars, and other- | |
| and other | 50-75 | Bittersweet chocolate | 40 |
| Jellies, soft, sugar-sanded | 45 | Sweet chocolate | 50 |
| Jellies, jube jel | 35 | Milk chocolate | 55 |
| Lozenges, sugar wafers, a | | Wilk ollowate | |
| pressed tablets | 90 | Coated bars chocolate or | |
| Marshmallows | 45 | confectioners coatings— | |
| Marshmallows, grain, circ | | Caramel-nougat | 45 |
| peanuts, and other | us 57 | Coconut | 40 |
| Nougats | 40 | Creamed | 65 |
| | 50 | Fudge | 52 |
| Taffy, English-type | 25 | Marshmallows | 52 52 |
| Taffy, wrapped | 23 | | 48 |
| Consumeration | | Nougats Peanut brittle | 50 |
| Sugar-panned candies— | -4- 60 | Peanut or nut roll bar | 35 |
| Jelly beans and related produc | | reanut of nut for bar | 33 |
| Caramels | 60 | Manufactural and the form | |
| Chocolate centers | 65 70 | Novelty chocolate bars— | 40 |
| Creams | 70 75 | Almond | 40 |
| Fudges | 75 | Cereal | 40 |
| Hard candies such as cinname | | Peanut | 40 |
| drops | 70 | 3.6' 11 1 | |
| Marshmallows | 80 | Miscellaneous candy— | 20 |
| Peanut and nut meats | 50 | Chocolate | 38 |
| | | Nonchocolate | 52 |
| Chocolate coated candies— | 5 0 | Unspecified | 45 |
| Brittles, nut or peanut | 50 | | |
| Caramels | 35 | Chewing gum | 56 |
| Creams, assorted | 60 | Chocolate, sweetened cooking | 50 |
| Fruits such as cordial cherries | | Cocoa, beverage powder (military) | 52 |
| Fudges | 52 | Fruit peel, candied | 70 |
| Jellies | 25-50 | Popcorn, candied | 60 |

¹The sugar content of confections may vary as much as 10% from the indicated figures.

Table 56—Refined beet and cane sugar content of specified products

| Product | Unit | Weight of refined sugar per unit of product | | |
|--|-----------------------|--|-----------|--|
| | | Pounds | Kilograms | |
| Dairy products: | | | - | |
| Chocolate milk | Pound | 0.05-0.07 | 0.02-0.03 | |
| Condensed milk, sweetened | Pound | .42 | .19 | |
| | 48, 14-ounce cans | 17.64 | 8.00 | |
| Condensed skim milk, sweetened | Pound | .40 | .18 | |
| Ice cream | Pound | .15 | .07 | |
| | Gallon (4.7 pounds) | .70 | .32 | |
| ce cream mix: | · - | | | |
| Paste | Pound | .36 | .16 | |
| Powder | do. | .40 | .18 | |
| Sherbet | do. | .28 | .13 | |
| Water ice | do. | .29 | .13 | |
| | | | | |
| Dessert powders: | do | 61 | 20 | |
| Custard or starch pudding powder | do. | .61 | .28 | |
| Gelatin-base powders | do. | .85 | .39 | |
| Fountain syrups and soft drinks: | | | | |
| Beverage powders, synthetic lemon or orange ¹ | www.nagana. | | | |
| Butterscotch or marshmallow topping | Pound | .40 | .18 | |
| Butterscoten of marsimianow topping | Gallon (11 pounds) | 4.40 | 2.00 | |
| | 6 No. 10 cans | 19.80 | | |
| Charalata ayana fan tannin a | | .26 | 8.98 | |
| Chocolate syrup for topping | Pound | | .12 | |
| | Gallon (11 pounds) | 2.86 | 1.30 | |
| O1 14 6 1 | 6 No. 10 cans | 12.87 | 5.84 | |
| Chocolate syrup for beverages | Pound | .38 | .17 | |
| | Gallon (10.27 pounds) | 3.90 | 1.77 | |
| | 6 No. 10 cans | 17.55 | 7.96 | |
| Cola, clear fruit or other soft drink syrups | Pound | .55 | .25 | |
| | Gallon (10.5 pounds) | 5.80 | 2.63 | |
| Cola-type soft drinks, bottled | Pound | .10 | .05 | |
| | Gallon (8.65 pounds) | .866 | .39 | |
| | 24, 7-ounce bottles | 1.14 | .52 | |
| | 24, 12-ounce bottles | 1.95 | .88 | |
| Fruit flavored soft drinks | Pound | .12 | .05 | |
| | Gallon (8.7 pounds) | 1.05 | .48 | |
| | 24, 7-ounce bottles | 1.37 | .62 | |
| | 24, 12-ounce bottles | 2.36 | 1.07 | |
| Ginger ale, bottled | Pound | .084 | .04 | |
| | Gallon (8.6 pounds) | .722 | .33 | |
| | 24, 12-ounce bottles | 1.62 | .73 | |
| Fruit products: | , , | | | |
| Fruit, frozen | Pound | .20 | .09 | |
| Fruit products, other— | 1 0 | | | |
| Apple butter | do. | .29 | .13 | |
| Jellies, jams, and preserves | do. | .55 | .25 | |
| Marmalade | do. | .67 | .30 | |
| Mincemeat | do. | .35 | .16 | |
| Miscellaneous: | uo. | | .10 | |
| | do. | 10 | .05 | |
| Mayonnaise | | .10 | | |
| Dis1-1-2 | Gallon | .81 | .37 | |
| Pickles, sweet | Pound | .35 | .16 | |
| Salad dressing | do. | .24 | .11 | |
| | Gallon | 2.11 | .96 | |

^{— =} Not applicable. ¹Synthetic beverage powders are sweetened with corn syrup and dextrose.

Table 57—Net weights, sugar solids content, and total solids content per unit of specified products at 20° Celsius¹

| Product | Unit ² | Net weight per unit | Total sugar solids content ³ | Total solid content |
|---------------------------------------|-------------------|---------------------|---|---------------------|
| Corn syrup, regular 42° Baume | Pound | 1.00 | .78 | 0.78 |
| Com Syrup, regular 42 Baume | Kilogram | .45 | .35 | .36 |
| | No. 10 can | 8.88 | 6.92 | 6.95 |
| | Gallon | 11.68 | 9.11 | 9.15 |
| | Liter | 44.21 | 34.48 | 34.63 |
| Corn sugar or dextrose (hydrate) | Pound | 1.00 | .92 | .92 |
| | Kilogram | .45 | .42 | .42 |
| Honey | Pound | 1.00 | .78 | .83 |
| | Kilogram | .45 | .35 | .38 |
| | Gallon | 11.84 | 9.24 | 9.83 |
| | Liter | 44.81 | 34.97 | 37.21 |
| Maple syrup | Pound | 1.00 | .64 | .66 |
| | Kilogram | .45 | .29 | .30 |
| | Gallon | 11.03 | 7.06 | 7.28 |
| | Liter | 41.75 | 26.72 | 27.55 |
| Maple syrup, imitation: | | | | |
| Thin type | Pound | 1.00 | .66 | .66 |
| | Kilogram | .45 | .30 | .30 |
| | Gallon | 11.03 | 7.28 | 7.28 |
| | Liter | 41.75 | 27.55 | 27.55 |
| Thick type | Pound | 1.00 | .73 | .73 |
| | Kilogram | .45 | .33 | .33 |
| | Gallon | 11.39 | 8.31 | 8.31 |
| | Liter | 43.11 | 31.45 | 31.45 |
| Maple sugar | Pound | 1.00 | .87 | .90 |
| | Kilogram | .45 | .39 | .41 |
| Molasses, edible, first centrifugal:4 | | | | |
| U.S. grade A | Pound | 1.00 | .635 | .79 |
| | Kilogram | .45 | .29 | .36 |
| | No. 10 can | 8.91 | 5.66 | 7.04 |
| | Gallon | 11.72 | 7.44 | 9.26 |
| | Liter | 44.36 | 28.16 | 35.05 |
| U.S. grade B | Pound | 1.00 | .615 | 79 |
| | Kilogram | .45 | .28 | 35.83 |
| | No. 10 can | 8.91 | 5.48 | 7.04 |
| | Gallon | 11.72 | 7.21 | 9.26 |
| | Liter | 44.36 | 27.29 | 35.05 |

See footnotes at end of table.

Continued-

Table 57—Net weights, sugar solids content, and total solids content per unit of specified products at 20° Celsius¹—Continued

| | | Net weight | Total sugar | Total | |
|--|-------------------|------------|-----------------------------|--------------|--|
| Product | Unit ² | per unit | solids content ³ | solid conten | |
| Molasses, edible, first centrifugal:4— | Continued | | | | |
| U.S. grade C | Pound | 1.00 | 0.58 | 0.79 | |
| 5.12. B | Kilogram | .45 | .26 | .36 | |
| | No. 10 can | 8.91 | 5.17 | 7.04 | |
| | Gallon | 11.72 | 6.80 | 9.26 | |
| | Liter | 44.36 | 25.74 | 35.05 | |
| Molasses, inedible blackstrap ⁵ 6 | Pound | 1.00 | .50 | .795 | |
| т | Kilogram | .45 | .23 | .36 | |
| | Gallon | 11.74 | 5.87 | 9.33 | |
| | Liter | 44.44 | 22.22 | 35.31 | |
| | Tank car | 93,920 | 46,960 | 74,666 | |
| Refiner's syrup: ⁷ | | | | | |
| U.S. grade A | Pound | 1.00 | .66 | .72 | |
| g | Kilogram | .45 | .30 | .33 | |
| | Gallon | 11.34 | 7.51 | 8.16 | |
| | Liter | 42.92 | 28.43 | 30.89 | |
| U.S. grade B | Pound | 1.00 | .62 | .72 | |
| | Kilogram | .45 | .28 | .33 | |
| | Gallon | 11.34 | 7.02 | 8.16 | |
| | Liter | 42.92 | 26.57 | 30.89 | |
| U.S. grade C | Pound | 1.00 | .59 | .76 | |
| • | Kilogram | .45 | .27 | .34 | |
| | Gallon | 11.55 | 6.85 | 8.78 | |
| | Liter | 43.72 | 25.93 | 33.23 | |
| U.S. grade D | Pound | 1.00 | .53 | .76 | |
| • | Kilogram | .45 | .24 | .34 | |
| | Gallon | 11.55 | 6.14 | 8.78 | |
| | Liter | 43.72 | 23.24 | 33.23 | |
| Sugar cane syrup: | | | | | |
| U.S. grade B, unsulfured | Pound | 1.00 | .68 | .74 | |
| | Kilogram | .45 | .31 | .34 | |
| | No. 10 can | 8.70 | 5.92 | 6.44 | |
| | Gallon | 11.45 | 7.79 | 8.47 | |
| | Liter | 43.34 | 29.49 | 32.06 | |
| U.S. grade B, sulfured | Pound | 1.00 | .65 | .74 | |
| | Kilogram | .45 | .29 | .34 | |
| | No. 10 can | 8.70 | 5.66 | 6.44 | |
| | Gallon | 11.45 | 7.44 | 8.47 | |
| | Liter | 43.34 | 28.16 | 32.06 | |
| See footnotes at end of table. | | | | Continue | |

Table 57—Net weights, sugar solids content, and total solids content per unit of specified products at 20° Celsius¹—Continued

| Product | Unit ² | Net weight per unit | Total sugar solids content ³ | Total solid content |
|-------------|-------------------|------------------------|---|------------------------|
| Sorgo syrup | Pound | 1.00 | 0.68 | 0.76 |
| <i>2</i> | Kilogram | .45 | .31 | .34 |
| | No. 10 can | 8.78 | 5.97 | 6.67 |
| | Gallon | 11.55 | 7.85 | 8.78 |
| | Liter | 43.72 | 29.71 | 33.23 |

¹A temperature scale that registers the freezing point of water at 0°C and boiling point of 100°C. To convert °F to °C, subtract 32 and multiply by 5/9; to convert °C to °F multiply by 9/5 and add 32.

²The No. 10 can is estimated to contain 0.76 gallon, based on internal volume of 189.7 cubic inches and 93% full when cold.

³Total sugar solids refers to all sugars, not only sucrose. The sugar content of all products, except corn syrup and honey, consists of one or more of the following sugars: dextrose, levulose (monosaccharides), and sucrose (disaccharide). Corn syrup, regular, 42° Baume contains 34% of mono, di, tri saccharides, which types of sugars are generally associated with sweetness. These types include dextrose and maltose (disaccharide). In addition, corn syrup contains 44% higher sugars (polymers of dextrose) which have little or no sweetness. Baume is a hydrometer scale that separately covers liquids with specific gravities greater and less than 1. The sugar content of honey averages 38% levulose, 31% dextrose, 7% maltose, 1.5% sucrose, and 1.5% higher sugars.

⁴U.S. grade A is based on minimum total sugar content of 63.5% and minimum density of 79° Brix. U.S. grade B is based on a minimum total sugar percentage of 61.5% and minimum density of 79° Brix. U.S. grade C is based on a minimum total sugar content of 58.0% and minimum density of 79° Brix. Brix is a hydrometer scale for measuring the sugar content of a solution at a given temperature.

⁵Based on average total sugar content of 50% and minimum density of 79.5° Brix.

⁶One gallon of ethanol made from 2.4 gallons of inedible blackstrap molasses.

⁷U.S. grade A is based on Brix solids content of not less than 72% and a ratio of total sugars to Brix solids of not less than 92%. U.S. grade B is based on a Brix solids content of not less than 72% and a ratio of total sugars to Brix solids of not less than 86%. U.S. grade C is based on Brix content of not less than 76% and a ratio of total sugar to Brix solids of not less than 78%. U.S. grade D is based on a Brix content of not less than 76% and a ratio of total sugars to Brix solids of not less than 70%. For a definition of Brix, see footnote 4.

Table 58—Factors for converting cotton acreages, cotton, and cotton products to equivalents¹

| From | To obtain | Multiply by |
|----------------------|--|-------------|
| Acreage: | | |
| Planted | Acreage harvested | 0.926 |
| <u> </u> | Cottonseed produced, tons | .472 |
| | Cottonseed crushed, tons | .296 |
| | Cotton produced, 480-pound bales | 1.208 |
| | Cotton produced, pounds | 580.018 |
| Harvested | Acreage harvested | 1.080 |
| | Cottonseed produced, tons | .510 |
| • | Cottonseed crushed, tons | .319 |
| | Cotton produced, 480-pound bales | 1.305 |
| | Cotton produced, pounds | 626.395 |
| Cottonseed produced: | | |
| Tons | Cottonseed crushed, tons | .627 |
| | Linters, tons | .089 |
| Pounds | Seed cotton, pounds | 1.647 |
| Cottonseed crushed: | | |
| Tons | Linters, tons | .090 |
| | Cottonseed crude oil produced, tons | .167 |
| | Cottonseed meal produced, tons | .457 |
| Cottonseed produced: | • | |
| 480-pound bales | Cottonseed produced, tons | .391 |
| | Cottonseed crushed, tons | .245 |
| | Cottonseed crude oil produced, tons | .041 |
| | Cottonseed meal produced, tons | .112 |
| | Linters, tons | .035 |
| Pounds | Cottonseed produced, pounds | 1.629 |
| | Cottonseed crushed, pounds | 1.020 |
| | Cottonseed crude oil produced, pounds | .171 |
| | Cottonseed meal produced, pounds | .466 |
| | Linters, pounds | .146 |
| | Seed cotton, pounds ² | 3.432 |
| Cotton: | | |
| 480-pound bales | Running bales | .973 |
| Running bales | 480-pound bales | 1.028 |
| Seed cotton: | | |
| Pounds | Cotton produced, pounds ² | .382 |
| | Cottonseed produced, pounds ² | .618 |

All figures based on the 5-year average, 1985/86-1989/90.
 Cotton production plus cottonseed production. Cottonseed for planting: The 1971/72-1975/76 5-year average quantity of cottonseed used for planting 1 acre of cotton was 27.4 pounds per acre. One pound per acre equals 1.120 85 kilograms per hectare. One kilogram per hectare equals 0.89218 pounds per acre.

Table 59—Factors relating to cottonseed products¹

| Product | Factors for converting | Factors for converting cottonseed products to- | | | |
|---------------|------------------------|--|--|--|--|
| | Tons per ton | Pounds per tor | | | |
| Crude oil | 0.167 | 334 | | | |
| Cake and meal | .457 | 914 | | | |
| Hulls | .254 | 508 | | | |
| Linters | .089 | 178 | | | |
| Waste | .033 | 66 | | | |

¹All figures based on the 5-year average 1985/86-1989/90.

Basis of Computation. Factors have been computed on the basis of the 5 crop seasons from 1985/86 through 1989/90 and represent ratios of the 5-season averages. The 5-season average was used to bring the factors more nearly into conformity with current experience.

Use of Factors. Users of these factors are cautioned with respect to the following limitations: The factors are not "official," even though they are based upon latest available official figures. They are not permanently fixed at the stated values because later information and changes in relationships may require revisions. Because basic data underlying certain series have differing variabilities, application of the factors will not necessarily result in the most satisfactory figure for use in current work. Factors should be applied to U.S. totals only and not to State or area totals. These factors apply to full-season totals only.

Definitions

Seed cotton Cotton as harvested but before ginning. It is the raw product which has been harvested and

contains the lint, seed, and foreign matter.

Moduled seed cotton A mechanical module builder compresses cotton into large modules in the field after harvest so

that cotton may be held temporarily on the farm or at the gin while awaiting ginning. About 40% of the U.S. cotton is moduled. This practice is especially important in the Southwest and

West.

Lint Cotton that has been separated from the seed by the ginning process.

Bale A rectangular package of compressed cotton lint as it comes from the gin. Including the

bagging and ties, it weighs about 500 pounds and its dimensions vary depending upon the degree of compression that may range from 12 to 32 pounds per cubic foot. A bale is the form of package by which cotton moves in domestic and foreign commerce. However, cotton

is bought and sold on a net weight (pound or kilogram) basis.

Running bale Any bale of varying lint weight as it comes from the gin.

480-pound net

An average bale weight used to maintain statistical comparability. It has superseded the

weight bale formerly used term, 500-pound gross weight bale.

density bale

Universal A bale pressed to a uniform size or repressed in a warehouse compress one time to a density

of at least 28 pounds per cubic foot.

Tare Weight of the ties (or bands) and bagging materials which contain the bale. The weight of

these packaging materials varies and is excluded from the reported or sale weight of the lint. The bands can be steel straps or wire. The bagging material can be jute, woven polypropylene fiber, or polyethylene plastic film, or cotton (woven or warp knit) depending on the type of

bale packaged.

Oilseed The cottonseed that is crushed for the oil and meal.

Planting seed The cottonseed that is planted. Seed not planted is crushed in oil mills for the oil, meal, hulls,

etc.

Linters Short fibers (usually less than 1/8 inch long) that remain attached to the cottonseed after

ginning. They are separated from the seed at the oil mill and used in cushioning product, as

stuffing, or as a source of cellulose for a variety of chemical products.

Motes Cotton waste material from the cotton ginning process, primarily resulting from the lint

cleaning operation. Motes can be reclaimed and sold for use in padding and upholstery filling,

nonwovens, and some open-end yarns.

Table 61—Scoured yield of greasy shorn and pulled domestic wools

| Grade | Domestic of | Scoured yield ¹ | | | |
|---------------------------------------|--|----------------------------|--------|--|--|
| | production of greasy wool ¹ | Shorn | Pulled | | |
| | Percent | | | | |
| Fine; 64's and finer | 28.9 | 27.0 | NA | | |
| ½ blood; 60's and 62's | 28.7 | 50.0 | 67.0 | | |
| % blood; 56's and 58's | 24.6 | 51.0 | 72.0 | | |
| ½ blood; 50's and 54's | 13.5 | 56.0 | 81.0 | | |
| Low ¼ blood; 46's and 48's | \ 4.3 | 61.0 | 82.0 | | |
| Common and braid; 36's, 40's, and 44' | s S | 62.0 | 84.0 | | |
| Weighted average, all grades | 100.0 | 52.8 | 72.9 | | |

NA = Not available.

¹Based on Current Industrial Report: "Stocks of Wool and Related Fibers," U.S. Dept. of Commerce, Bureau of the Census, MA-22M, 1971-86 reports. Percentage of production by grade based on the stocks reports and wool supply and use data for 1991, provided by the American Sheep Industry Association.

Table 62—Tobacco: Factors for adjusting stocks reported by dealers and manufacturers to a farm-sales-weight equivalent

| | - | | Factors to mu | | | | |
|---------------------------------|--------|------------------------------------|---------------|--|---------------------|-----------------------------|--|
| - | | Stemmed stocks | | | | nmed stocks | |
| Туре | Туре | Unstemmed | F | arm-sales- | to farm-sales- | | |
| | number | equivalent | e | weight quivalent | | t equivalent acked weigh | |
| | | | | | | | |
| Auction market areas (types 11- | • | | | | | | |
| Flue-cured | 11-14 | 1.295 | | 1.470 | | 1.12 | |
| Virginia fire-cured | 21 | 1.299 | | 1.598 | | 1.23 | |
| Tennessee and Kentucky | | | | | | | |
| fire-cured | 22-23 | 1.324 | | 1.471^{2} | | 1.04 | |
| Burley | 31 | 1.345 | | 1.550 | | 1.12 | |
| Southern Maryland | 32 | 1.373 | | 1.400 | | 1.02 | |
| One sucker | 35 | 1.413 | | 1.554 | | 1.10 | |
| Green River | 36 | 1.389 | | 1.570 | | 1.13 | |
| Virginia sun-cured | 37 | 1.326 | | 1.538 | | 1.16 | |
| Miscellaneous domestic | 72-73 | 1.333 | | 1.493 | | 1.12 | |
| Imported leaf (types 81-93): | | | | | | | |
| Cigar leaf | 81-89 | 1.400 | | 1.624 | | 1.16 | |
| Oriental and aromatic | 91 | 1.333 | | 1.466 | | 1.10 | |
| Flue-cured | 92 | 1.295 | | 1.450 | | 1.12 | |
| Burley | . 93 | 1.345 | | 1.506 | | 1.12 | |
| | | Factors to multiply by to convert— | | | | | |
| | | Stemmed stocks to— Unstemmed | | d stocks to farm-sales- nt from packed weight | | | |
| | _ | | Farm-sales- | equivale | nt mont pack | ed weight | |
| | | Unstemmed | weight | Sweated | Marked | Farm-sale | |
| | | equivalent | equivalent | weight ³ | weight ³ | weight ³ | |
| Domestic-grown cigar leaf | - | | | | | | |
| (types 41-62): | | | | | | | |
| Pennsylvania seedleaf | 41 | 1.444 | 1.718 | 1.19 | 1.05 | 1.00 | |
| Ohio | 42-44 | 1.454 | 1.730 | 1.19 | 1.05 | 1.00 | |
| Puerto Rican | 46 | 1.314 | 1.551 | 1.18 | 1.16 | 1.00 | |
| Connecticut broadleaf | 51 | 1.375 | 1.622 | 1.18 | 1.04 | 1.00 | |
| Connecticut Havana seed | 52 | 1.386 | 1.635 | 1,18 | 1.04 | 1.00 | |
| Southern Wisconsin | 54 | 1.383 | 1.687 | 1.22 | 1.06 | 1.00 | |
| Northern Wisconsin | 55 | 1.404 | 1.713 | 1.22 | 1.06 | 1.00 | |
| Connecticut shade | 61 | 1.245 | 1.419 | 1.14 | 1.10 | 1.00 | |
| Georgia and Florida | | | | | | | |
| shade | 62 | 1.235 | 1.408 | 1.14 | 1.10 | 1.00 | |

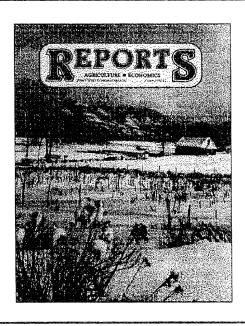
¹Types 11-37 are reported on the basis of packed weight.

²Farm-sales-weight equivalent based on sweated weight factor.

³The instructions for reporting unstemmed cigar-leaf of the domestic types require that dealers and manufacturers indicate the weight basis on which the tobacco is reported, namely, farm-sales-weight, marked weight, or sweated weight. The stocks are converted to the farm-sales weight equivalent on the basis of average factors reflecting the percentage reported each quarter in each of these categories.

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